



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 174347

TO: Nita M Minnifield
Location: rem/3C01/3C18
Art Unit: 1645
Friday, December 16, 2005

Case Serial Number: 09/642744

From: Edward Hart
Location: Biotech-Chem Library
REM-1A55
Phone: 571-272-2512

edward.hart@uspto.gov

Search Notes

Examiner Minnifield,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

*Reviewed
12/05*

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STIC-Biotech/ChemLib

174347

mg

From: Pak, Michael
Sent: Thursday, December 15, 2005 11:07 AM
To: STIC-Biotech/ChemLib
Cc: Minnifield, Nita
Subject: FW: request for approval- interference sequence search

Dear STIC,

Please **RUSH** search the mutlitple sequence search request set forth below.

Thanks,

Mike Pak

-----Original Message-----

From: Minnifield, Nita
Sent: Tuesday, December 13, 2005 11:16 AM
To: Pak, Michael
Subject: request for approval- interference sequence search

Michael,
09/642744 is a case I inherited; 19 peptide sequences have been examined. SEQ ID NO: 1, 6-17, 21-23, 25, 26 and 28 are peptides that are no longer than 31 amino acids in length. Each of these 19 sequences is recited in the claims.

Please approve.

Please forward to Christina Chan for a RUSH APPROVAL as this case is an AFTER FINAL.

Thanks,
Minnifield

FOR STIC

09/642744

Please do an interference sequence search on SEQ ID NO: 1, 6-17, 21-23, 25, 26 and 28.

Please provide a paper copy of all results.

Thanks,
Minnifield
71976
Art Unit 1645

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search _____
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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- FOR SCANNING ONLY -

Notice of References Cited	Application/Control No. 09/642,744	Applicant(s)/Patent Under Reexamination TACK ET AL.	
	Examiner Khatol S Shahnan-Shah	Art Unit 1645	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Turner et al., Antimicrobial and Chemotherapy Vol. 42, NO.9, pp.2206-2214, 1998..
*	U	Turner et al., Antimicrobial and Chemotherapy Vol. 42, NO.9, pp.2206-2214, 1998..
*	U	Turner et al., Antimicrobial and Chemotherapy Vol. 42, NO.9, pp.2206-2214, 1998..
*	U	Turner et al., Antimicrobial and Chemotherapy Vol. 42, NO.9, pp.2206-2214, 1998..

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

.. FOR SCANNING ONLY..

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—OR FILE AT—
STA 31.19 MC—

—OR FILE AT—
STA 31.17 MC—

—OR FILE AT—
STA 31.15 MC—

- FOR SCANNING ONLY -

Notice of References Cited	Application/Control No. 09/642,744	Applicant(s)/Patent Under Reexamination TACK ET AL.	
	Examiner Khatol S Shahn-Shah	Art Unit 1645	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	Nahomy, et al. EES Letters, Vol. 377, pp. 549-552, 1995
	V	Sequence alignments for SEQ ID NO 27
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

FOR REMAINING COPY

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DUPLICATE

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 4.42679 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-28

Perfect score: 142
Sequence: 1 KNLRRIIRKIHIIKKYGPILIRIRIG 29

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	90	63.4	18 7 US-11-092-496-8	Sequence 8, Appli
2	90	63.4	18 7 US-11-092-496-15	Sequence 15, Appli
3	90	63.4	18 7 US-11-092-496-22	Sequence 22, Appli
4	90	63.4	18 7 US-11-092-496-29	Sequence 29, Appli
5	89	62.7	18 7 US-11-119-581-64	Sequence 64, Appli
6	88	62.0	18 7 US-11-119-581-60	Sequence 60, Appli
7	86	60.6	18 7 US-11-119-581-59	Sequence 59, Appli
8	85	59.9	18 7 US-11-092-496-3	Sequence 3, Appli
9	85	59.9	18 7 US-11-092-496-7	Sequence 7, Appli
10	85	59.9	18 7 US-11-092-496-10	Sequence 10, Appli
11	85	59.9	18 7 US-11-092-496-14	Sequence 14, Appli
12	85	59.9	18 7 US-11-092-496-17	Sequence 17, Appli
13	85	59.9	18 7 US-11-092-496-21	Sequence 21, Appli
14	85	59.9	18 7 US-11-092-496-24	Sequence 24, Appli
15	85	59.9	18 7 US-11-092-496-28	Sequence 28, Appli
16	85	59.9	18 7 US-11-119-581-61	Sequence 61, Appli
17	85	59.9	18 7 US-11-119-581-62	Sequence 62, Appli
18	84	59.2	18 7 US-11-092-496-4	Sequence 4, Appli
19	84	59.2	18 7 US-11-092-496-11	Sequence 11, Appli
20	84	59.2	18 7 US-11-092-496-18	Sequence 18, Appli
21	84	59.2	18 7 US-11-092-496-25	Sequence 25, Appli
22	83	58.5	18 7 US-11-092-496-5	Sequence 5, Appli
23	83	58.5	18 7 US-11-092-496-6	Sequence 6, Appli
24	83	58.5	18 7 US-11-092-496-12	Sequence 12, Appli
25	83	58.5	18 7 US-11-092-496-13	Sequence 13, Appli

26	83	58.5	18 7 US-11-092-496-19	Seq	p1
27	83	58.5	18 7 US-11-092-496-20	Seq	p1
28	83	58.5	18 7 US-11-092-496-26	Seq	p1
29	83	58.5	18 7 US-11-092-496-27	Seq	p1
30	83	58.5	18 7 US-11-119-581-63	Seq	p1
31	82	57.7	18 7 US-11-092-496-2	Seq	p1
32	82	57.7	18 7 US-11-092-496-9	Seq	p1
33	82	57.7	18 7 US-11-092-496-16	Seq	p1
34	82	57.7	18 7 US-11-092-496-23	Seq	p1
35	82	57.7	18 7 US-11-119-581-1	Seq	p1
36	81	57.0	18 7 US-11-119-581-43	Seq	p1
37	81	57.0	18 7 US-11-119-581-78	Seq	p1
38	81	57.0	18 7 US-11-119-581-82	Seq	p1
39	80	56.3	18 7 US-11-119-581-25	Seq	p1
40	80	56.3	18 7 US-11-119-581-40	Seq	p1
41	80	56.3	18 7 US-11-119-581-45	Seq	p1
42	80	56.3	18 7 US-11-119-581-77	Seq	p1
43	80	56.3	18 7 US-11-119-581-80	Seq	p1
44	79	55.6	18 7 US-11-119-581-42	Seq	p1
45	79	55.6	18 7 US-11-119-581-56	Seq	p1

ALIGNMENTS

RESULT 1
US-11-092-496-8
Sequence 8, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (6)..(6)
OTHER INFORMATION: D-isoleucine
US-11-092-496-8

Query Match 63.4%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIIRKIHIIKKYG 18
DB 1 KNLRRIIRKIHIIKKYG 18
RESULT 2
US-11-092-496-15
Sequence 15, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 15
LENGTH: 18
TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE: MISC_FEATURE
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match 63.4%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE: MISC_FEATURE
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match 63.4%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE: MISC_FEATURE
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-isoleucine

US-11-092-496-29

Query Match 63.4%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 62.7%; Score 89; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 6.5e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 62.0%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 9e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18

Db 1 KNLRRRIIRKLIHIKKYG 18

RESULT 7
US-11-119-581-59

; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 60.6%; Score 86; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.7e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRRIIRKLIHIKKYG 18
Db 1 KNLRRRIIRKLIHIKKYG 18

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRRIIRKLIHIKKYG 18
Db 1 KNLRRRIIRKLIHIKKYG 18

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRRIIRKLIHIKKYG 18
Db 1 KNLRRRIIRKLIHIKKYG 18

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRRIIRKLIHIKKYG 18
Db 1 KNLRRRIIRKLIHIKKYG 18

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

```
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7)_(7)
OTHER INFORMATION: D-alanine
US-11-092-496-14
```

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

```
Oy 1 KNLRRIIRKIIHIKKYG 18
    ||||| ||||| |||||
Db 1 KNLRRIIRKIIHIKKYG 18
```

RESULT 12

```
US-11-092-496-17
Sequence 17, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17
```

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

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Oy 1 KNLRRIIRKIIHIKKYG 18
    ||||| ||||| |||||
Db 1 KNLRRIIRKIIHIKKYG 18
```

RESULT 13

```
US-11-092-496-21
Sequence 21, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)_(10)
OTHER INFORMATION: D-alanine
US-11-092-496-21
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Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

```
Oy 1 KNLRRIIRKIIHIKKYG 18
```

```
Db 1 KNLRRIIRKIIHIKKYG 18
    ||||| ||||| |||||
```

RESULT 14

```
US-11-092-496-24
Sequence 24, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24
```

Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

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Oy 1 KNLRRIIRKIIHIKKYG 18
    ||||| ||||| |||||
Db 1 KNLRRIIRKIIHIKKYG 18
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RESULT 15

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US-11-092-496-28
Sequence 28, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)_(11)
OTHER INFORMATION: D-alanine
US-11-092-496-28
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Query Match 59.9%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.3e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

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Oy 1 KNLRRIIRKIIHIKKYG 18
    ||||| ||||| |||||
Db 1 KNLRRIIRKIIHIKKYG 18
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Search completed: December 16, 2005, 03:10:12
Job time : 4.47942 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 / Search time 111.212 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-28

Perfect score: 142
Sequence: 1 KNLRRIIRKIHIIKKYGPILIRIRIG 29

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	142	100.0	29	4	US-10-060-102-8
2	142	100.0	29	4	US-10-721-839-8
3	142	100.0	29	4	US-10-721-829-8
4	104	73.2	21	4	US-10-060-102-17
5	104	73.2	21	4	US-10-721-839-17
6	104	73.2	21	5	US-10-721-829-17
7	104	73.2	23	4	US-10-060-102-16
8	104	73.2	23	4	US-10-721-839-16
9	104	73.2	23	5	US-10-721-829-16
10	103	72.5	29	4	US-10-060-102-4
11	103	72.5	29	4	US-10-721-839-4
12	103	72.5	29	5	US-10-721-829-4
13	103	72.5	160	5	US-09-917-340-36
14	103	72.5	160	5	US-10-844-837-36
15	103	72.5	160	5	US-10-909-119-51
16	103	72.5	160	5	US-10-657-851-36
17	98	69.0	28	4	US-10-060-102-3
18	98	69.0	28	4	US-10-721-839-3
19	98	69.0	28	5	US-10-721-829-3
20	95	66.9	19	4	US-10-060-102-21
21	95	66.9	19	4	US-10-721-839-21
22	95	66.9	19	5	US-10-721-829-21
23	95	66.9	21	4	US-10-060-102-23
24	95	66.9	21	4	US-10-721-839-23
25	95	66.9	21	5	US-10-721-829-23
26	91	64.1	18	4	US-10-060-102-22
27	91	64.1	18	4	US-10-721-839-22

28	91	64.1	18	5	US-10-721-829-22	Sec
29	91	64.1	20	4	US-10-060-102-24	Sec
30	91	64.1	20	4	US-10-721-839-24	Sec
31	91	64.1	20	5	US-10-721-829-24	Sec
32	90	63.4	18	3	US-09-840-009-2	Sec
33	90	63.4	18	3	US-09-840-009-9	Sec
34	90	63.4	18	3	US-09-840-009-16	Sec
35	90	63.4	18	3	US-09-840-009-23	Sec
36	90	63.4	18	3	US-09-840-009-30	Sec
37	90	63.4	18	4	US-10-060-102-9	Sec
38	90	63.4	18	4	US-10-060-102-12	Sec
39	90	63.4	18	4	US-10-721-839-9	Sec
40	90	63.4	18	4	US-10-721-839-12	Sec
41	90	63.4	18	5	US-10-721-829-9	Sec
42	90	63.4	18	5	US-10-721-829-12	Sec
43	88	62.0	18	4	US-10-060-102-10	Sec
44	88	62.0	18	4	US-10-060-102-11	Sec
45	88	62.0	18	4	US-10-721-839-10	Sec

ALIGNMENTS

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RESULT 1
US-10-060-102-8
; Sequence 8, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYI
US-10-060-102-8
;
Query Match      100.0%; Score 142; DB 4; Length 2;
Best Local Similarity 100.0%; Pred. No. 2.5e-13;
Matches 29; Conservative 0; Mismatches 0; Indels 0;

QY      1 KNLRRIIRKIHIIKKYGPILIRIRIG 29
DB      1 KNLRRIIRKIHIIKKYGPILIRIRIG 29

RESULT 2
US-10-721-839-8
; Sequence 8, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-8

Query Match 100.0%; Score 142; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.5e-13;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRIIRIKIHIKKYGTILRIIRIG 29
Db 1 KNLRIIRIKIHIKKYGTILRIIRIG 29

RESULT 3
US-10-721-829-8
Sequence 8, Application US/10721829
Publication No. US2005011376A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-8

Query Match 100.0%; Score 142; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 2.5e-13;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRIIRIKIHIKKYGTILRIIRIG 29
Db 1 KNLRIIRIKIHIKKYGTILRIIRIG 29

RESULT 4
US-10-060-102-17

Sequence 17, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 17
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-17

Query Match 73.2%; Score 104; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0;

Qy 9 KIHIKKYGTILRIIRIG 29
Db 1 KIHIKKYGTILRIIRIG 21

RESULT 5
US-10-721-839-17
Sequence 17, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 17
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-17

Query Match 73.2%; Score 104; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KIHIIKKYGPILRIIRIIG 29
Db 1 KIHIIKKYGPILRIIRIIG 21

RESULT 6
US-10-721-829-17
; Sequence 17, Application US/10721829
; Publication No. US20050113776A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 17
LENGTH: 21
TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-17

Query Match 73.2%; Score 104; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 KIHIIKKYGPILRIIRIIG 29
Db 1 KIHIIKKYGPILRIIRIIG 21

RESULT 7
US-10-060-102-16
; Sequence 16, Application US/10060102
; Publication No. US20030022829A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 16
LENGTH: 23
TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-16

Query Match 73.2%; Score 104; DB 4; Length 23
Best Local Similarity 100.0%; Pred. No. 6.2e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0;

Qy 9 KIHIIKKYGPILRIIRIIG 29
Db 3 KIHIIKKYGPILRIIRIIG 23

RESULT 8
US-10-721-839-16
; Sequence 16, Application US/10721839
; Publication No. US20040086535A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 16
LENGTH: 23
TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-721-839-16

Query Match 73.2%; Score 104; DB 4; Length 23
Best Local Similarity 100.0%; Pred. No. 6.2e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0;

Qy 9 KIHIIKKYGPILRIIRIIG 29
Db 3 KIHIIKKYGPILRIIRIIG 23

RESULT 9
US-10-721-829-16
; Sequence 16, Application US/10721829
; Publication No. US20050113776A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

```

1  TITLE OR INVENTION:  CATHELICIDINS
2  FILE REFERENCE:  IOWA:035US
3  CURRENT APPLICATION NUMBER:  US/10/0721, 829
4  CURRENT FILING DATE:  2003-11-25
5  PRIOR APPLICATION NUMBER:  US/10/060,102
6  PRIOR FILING DATE:  2002-02-22
7  PRIOR APPLICATION NUMBER:  60/309,368
8  PRIOR FILING DATE:  2001-08-01
9  PRIOR APPLICATION NUMBER:  60/665,270
10 PRIOR FILING DATE:  2001-01-30
11 NUMBER OF SEQ ID NOS: 32
12 SOFTWARE:  PatentIn Ver. 2.1
13 SEQ ID NO 16
14 LENGTH: 23
15 TYPE:  PRT
16 ORGANISM:  Artificial Sequence
17 FEATURE:
18 OTHER INFORMATION:  Description of Artificial Sequence:  Synthetic
19 US-10-721-829-16

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Query Match	73.2%	Score 104	DB 5	Length 23
Best Local Similarity	100.0%	Pred. NC	6.2e-08	
Matches 21	Conservative 0	Mismatches 0	Indels 0	Gaps 0

QY	9	KIHIKKYGP	TLRI	IRIG	29
Db	3	KIHIKKYGP	TLRI	IRIG	23

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RESULT 10
US-10-060-102-4
; Sequence 4, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
; TITLE OF INVENTION: CATHELICIDINS
; PIR REFERENCE: IOMA.035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Lepus
; US-10-060-102-4

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Query Match	72.5%	Score 103	DB 4	Length 29
Best Local Similarity	69.0%	Pred. No. 1.1e-07		
Matches 20	Conservative 4	Mismatches 5	Indels 0	Gaps 0

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Qy      1 KMLRRIIRKIIHIKKCGPTLRIIRIIG 29
      : |||: ||| : |||||: ||||| |
Db      1 RGLRRLGRKIAHGKKYGPYLRIRIAG 29
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RESULT 11
US-10-721-839-4
; Sequence 4, Application US/10721839
; Publication No. US2004008655A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY

```

APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TRICK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
TITLE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 29
TYPE: PRT
ORGANISM: Lepus
US-10-721-839-4

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Query Match	72.5%	Score 103	DB 4	Length 29
Best Local Similarity	69.0%	Pred. No. 1.1e-07		
Matches 20	Conservative 4	Mismatches 5	Indels	0

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OY      1 KNLRLRIIRKIHIHKYGPPTLIRIIRIG 29
          : ||| : ||||| : ||||| |
Db      1 RGLRLRGKIAHGKYGPVLRIRIIRAG 29
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RESULT 12
US-10-721-829-4
; Sequence 4, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, MENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 29
; TYPE: prt
; ORGANISM: Lepus
US-10-721-829-4
; AND MA.WA.11

```

Query Match	72.5%	Score 103	DB 5	Length 29
Best Local Similarity	69.0%	Pred. No. 1	1e-07	
Matches 20	Conservative	4	Mismatches 5	Indels 0

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QY      1 KMLRRIIRKIIHIKKCGPTLRIIRIIG 29
      : |||: ||| : |||||: ||||| |
DB      1 RGLRRLGRKIAHGCVKKCGPYLRIIRIAG 29
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RESULT 13

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US-09-917-340-36
; Sequence 36, Application US/09917340
; Patent No. US20020090369A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Christopher J.
; APPLICANT: McNulty, Jonathan F.
; APPLICANT: Reid, Ted W.
; TITLE OF INVENTION: Transplant Media
; FILE REFERENCE: TPLANT-06468
; CURRENT APPLICATION NUMBER: US/09/917,340
; CURRENT FILING DATE: 2001-07-29
; PRIOR APPLICATION NUMBER: 60/221,632
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/249,602
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/290,932
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36
; LENGTH: 160
; TYPE: PR1
; ORGANISM: Ovis aries
US-09-917-340-36

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Qy      1 KNLRRIIRIKIIIIKKYGGPTLRIIRIRG 29
      : ||||: ||||: ||||: ||||: ||||:
Db      132 RGLRRRLGRIKIAHGVKKYGGPTLRIIRIRG 160
      Matches 20; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
Query Match 72.5%; Score 103; DB 3; Length 160;
Best Local Similarity 69.0%; Pred. No. 7.2e-07;

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RESULT 14
US-10-844-837-36
; Sequence 36. Application US/10844837
; Publication No. US20050014932A1
; GENERAL INFORMATION:
; APPLICANT: Imboden, Michael
; APPLICANT: Homan, Jane
; APPLICANT: Bremel, Robert D.
; TITLE OF INVENTION: Targeted Biocides
; FILE REFERENCE: IJGEN-09014
; CURRENT APPLICATION NUMBER: US/10/844,837
; CURRENT FILING DATE: 2004-05-13
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Ovis aries
; US-10-844-837-36

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```

QY      1 KNEARRIRKIIHIKKYGPTLRIIRIG 29
          : |||: |||: |||: |||: |||: |
Db      132 RGLRRILGRKIAGVKYGPVLRIIRIING 160

Query Match           72.5%; Score 103; DB 5; Length 160;
Best Local Similarity 69.0%; Pred. No. 7.2e-07;
Matches    20; Conservative   4; Mismatches    5; Indels     0; Gaps     0;

RESULT 15
US-10-909-119-51
: Sequence 51, Application US/10909119
: Publication No. US20050079578A1
: GENERAL INFORMATION:
: APPLICANT: Centanni, John M.
: APPLICANT: Allen-Hoffmann, Lynn
: TITLE OF INVENTION: Human Skin Equivalents Expressing Exogenous Polypeptidease
: FILE REFERENCE: STRATA-09123
: CURRENT APPLICATION NUMBER: US/10/909,119
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; CURRENT FILING DATE: 2004-07-30
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 51
; LENGTH: 160
; TYPE: prt
; ORGANISM: Ovis aries
US-10-909-119-51

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Query Match	72.5%;	Score 103;	DB 5;	Length 16
Best Local Similarity	69.0%;	Pred. No. 7.2e-07;		
Matches 20;	Conservative 4;	Mismatches 5;	Indels 0;	

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QY      1 KNLRLRIIRKIHHIKKYGPTILRIRIIG 29
          : ||| : ||| : ||||| : ||||| |
Db     132 RGLRLGRKIAHGKKYGPVLRIRIAG 160
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Search completed: December 16, 2005, 03:09:17
Job time : 111.212 secs

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Query Match.          72.5%; Score 103; DB 5; Length 160
Best Local Similarity 69.0%; Pred. No. 7, 2e-07;
Matches 20; Conservative 4; Mismatches 5; Indels 0,

Qy      1 KNLRRIRIRKIIHIIKKXGPTILRIRIRIG 29
      :|||:||||:|||||:|||||
Db      132 RGLRRLGRKIAHGKXGPTVLRIRIRIAG 160

Search completed: December 16, 2005, 03:09:17
Job time : 111.212 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 32.433 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-28
Perfect score: 142
Sequence: 1 KNLRIRIKRIHIKKYPTLIRIRIRIG 29

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/1aa/6-COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H-COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCTUS-COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE-COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	103	72.5	160 2	US-09-917-340-36 Sequence 36, Appli
2	90	63.4	18 2	US-09-840-009-2 Sequence 2, Appli
3	90	63.4	18 2	US-09-840-009-9 Sequence 9, Appli
4	90	63.4	18 2	US-09-840-009-16 Sequence 16, Appli
5	90	63.4	18 2	US-09-840-009-23 Sequence 23, Appli
6	90	63.4	18 2	US-09-840-009-30 Sequence 30, Appli
7	85	59.9	18 2	US-09-840-009-4 Sequence 4, Appli
8	85	59.9	18 2	US-09-840-009-8 Sequence 8, Appli
9	85	59.9	18 2	US-09-840-009-11 Sequence 11, Appli
10	85	59.9	18 2	US-09-840-009-15 Sequence 15, Appli
11	85	59.9	18 2	US-09-840-009-18 Sequence 18, Appli
12	85	59.9	18 2	US-09-840-009-22 Sequence 22, Appli
13	85	59.9	18 2	US-09-840-009-25 Sequence 25, Appli
14	85	59.9	18 2	US-09-840-009-29 Sequence 29, Appli
15	84	59.2	18 2	US-09-840-009-5 Sequence 5, Appli
16	84	59.2	18 2	US-09-840-009-12 Sequence 12, Appli
17	84	59.2	18 2	US-09-840-009-19 Sequence 19, Appli
18	84	59.2	18 2	US-09-840-009-26 Sequence 26, Appli
19	83	58.5	18 2	US-09-840-009-6 Sequence 6, Appli
20	83	58.5	18 2	US-09-840-009-7 Sequence 7, Appli
21	83	58.5	18 2	US-09-840-009-13 Sequence 13, Appli
22	83	58.5	18 2	US-09-840-009-14 Sequence 14, Appli
23	83	58.5	18 2	US-09-840-009-20 Sequence 20, Appli
24	83	58.5	18 2	US-09-840-009-21 Sequence 21, Appli
25	83	58.5	18 2	US-09-840-009-27 Sequence 27, Appli
26	83	58.5	18 2	US-09-840-009-28 Sequence 28, Appli
27	82	57.7	18 2	US-09-840-009-3 Sequence 3, Appli

28	82	57.7	18 2	US-09-840-009-10	Seq
29	82	57.7	18 2	US-09-840-009-17	Seq
30	82	57.7	18 2	US-09-840-009-24	Seq
31	82	57.7	18 2	US-09-840-009-31	Seq
32	76	53.5	18 2	US-09-840-009-34	Seq
33	76	53.5	18 2	US-09-840-009-35	Seq
34	74	52.1	18 2	US-09-840-009-32	Seq
35	74	52.1	18 2	US-09-840-009-33	Seq
36	70	49.3	18 2	US-09-840-009-1	Seq
37	67	47.2	159 2	US-09-917-340-34	Seq
38	65	45.8	18 2	US-09-840-009-36	Seq
39	65	45.8	18 2	US-09-840-009-37	Seq
40	57.5	40.5	178 2	US-09-605-703B-760	Seq
41	57.5	40.5	178 2	US-09-605-703B-762	Seq
42	53.5	37.7	205 2	US-09-134-001C-4766	Seq
43	52	36.6	42 2	US-09-785-059B-7	Seq
44	52	36.6	42 2	US-10-079-075-7	Seq
45	52	36.6	48 2	US-09-785-059B-8	Seq

ALIGNMENTS

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RESULT 1
US-09-917-340-36
Sequence 36, Application US/09917340
Patent No. 6696238
GENERAL INFORMATION:
APPLICANT: Murphy, Christopher J.
APPLICANT: McNulty, Jonathan F.
APPLICANT: Reid, Ted W.
TITLE OF INVENTION: Transplant Media
FILE REFERENCE: TPLANT-06468
CURRENT FILING DATE: 2001-07-29
CURRENT APPLICATION NUMBER: US/09/917,340
PRIOR FILING DATE: 2001-07-29
PRIOR APPLICATION NUMBER: 60/221,632
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 60/249,602
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/290,932
PRIOR FILING DATE: 2001-05-15
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 36
LENGTH: 160
TYPE: PRT
ORGANISM: Ovis aries
US-09-917-340-36

Query Match      72.5% Score 103, DB 2, Length 161
Best Local Similarity 69.0%; Pred. No. 3.4e-07;
Matches 20; Conservative 4; Mismatches 5; Indels 0;

OY      1 KNLRIRIKRIHIKKYPTLIRIRIRIG 29
DB      132 RGLRLRKLIAHGKXKPTVLRIRIRIG 160

RESULT 2
US-09-840-009-2
Sequence 2, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPRINGS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT FILING DATE: 2001-04-19
CURRENT APPLICATION NUMBER: US/09/840,009
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37

```

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/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
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```
Query Match          63.4%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KNLRRIIRKIHIHKYKG 18
        |||||
Db       1 KNLRRIIRKIHIHKYKG 18
```

```
RESULT 3
US-09-840-009-9
/ Sequence 9, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Maring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195MO
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US/09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 9
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-9
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```
Query Match          63.4%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KNLRRIIRKIHIHKYKG 18
        |||||
Db       1 KNLRRIIRKIHIHKYKG 18
```

```
RESULT 4
US-09-840-009-16
/ Sequence 16, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Maring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195MO
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US/09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 16
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
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```
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-Isoleucine
US-09-840-009-16
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```
Query Match          63.4%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      1 KNLRRIIRKIHIHKYKG 18
        |||||
Db       1 KNLRRIIRKIHIHKYKG 18
```

```
RESULT 5
US-09-840-009-23
/ Sequence 23, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Maring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195MO
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US/09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 23
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-23
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```
Query Match          63.4%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
```

```
QY      1 KNLRRIIRKIHIHKYKG 18
        |||||
Db       1 KNLRRIIRKIHIHKYKG 18
```

```
RESULT 6
US-09-840-009-30
/ Sequence 30, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Maring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195MO
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US/09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 30
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30
```

```
Query Match          63.4%; Score 90; DB 2; Length 18;
```


Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 7

US-09-840-009-4
; Sequence 4, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 8

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 10

US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328

GENERAL INFORMATION:
APPLICANT: Leherer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 18
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 12
US-09-840-009-22
Sequence 22, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Leherer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-22

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 13
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Leherer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO

CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 14
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Leherer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-29

Query Match 59.9%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-05;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 15
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Leherer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 5
 LENGTH: 18
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-840-009-5

Query Match 59.2%; Score 84; DB 2; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.9e-05;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KNLRRIRRIHIKKYG 18
 Db 1 KNLRRIRRIHIKKYG 18

Search completed: December 16, 2005, 01:24:13
 Job time : 32.4857 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.59502 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-26
Perfect score: 81
Sequence: 1 KIXEKLKIKGKICGL 17

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	42	51.9	774	7	US-11-077-886-34
2	41	50.6	558	6	US-10-467-657-1734
3	39	48.1	270	6	US-10-981-873-47
4	38	46.9	181	6	US-10-793-626-1842
5	38	46.9	293	6	US-10-821-234-1374
6	38	46.9	306	6	US-10-878-556A-56
7	38	46.9	1618	6	US-10-984-645-2
8	37.5	46.3	39	7	US-11-068-783-106
9	37	45.7	37	7	US-11-068-783-57
10	37	45.7	37	7	US-11-123-182-4
11	37	45.7	92	7	US-11-053-076-168
12	37	45.7	122	6	US-10-793-626-564
13	37	45.7	183	6	US-10-793-626-2828
14	37	45.7	741	6	US-10-793-626-1178
15	36	44.4	39	7	US-11-068-783-107
16	36	44.4	431	7	US-11-169-013-2
17	36	44.4	474	6	US-10-793-626-946
18	36	44.4	834	6	US-10-131-826A-148
19	36	44.4	841	6	US-10-624-932-6
20	36	44.4	841	6	US-10-624-932-8
21	36	44.4	908	6	US-10-467-657-1070
22	36	44.4	1299	6	US-10-821-234-1145
23	36	44.4	4868	7	US-11-044-111-24
24	35.5	43.8	181	6	US-10-467-657-1918
25	35	43.2	35	7	US-11-123-182-5

26	35	43.2	77	6	US-10-689-742-136	Seq
27	35	43.2	239	6	US-10-957-569-54	Seq
28	35	43.2	269	6	US-10-821-234-1684	Seq
29	35	43.2	301	6	US-10-793-626-206	Seq
30	35	43.2	315	6	US-10-878-556A-178	Seq
31	35	43.2	333	6	US-10-821-234-1036	Seq
32	35	43.2	357	6	US-10-878-556A-83	Seq
33	35	43.2	462	6	US-10-467-657-7636	Seq
34	35	43.2	488	6	US-10-485-517-307	Seq
35	35	43.2	490	7	US-11-069-642-23	Seq
36	35	43.2	514	6	US-10-821-234-998	Seq
37	35	43.2	935	6	US-10-995-561-1012	Seq
38	35	43.2	935	6	US-10-995-561-1013	Seq
39	35	43.2	1066	7	US-11-055-832-370	Seq
40	35	43.2	1066	7	US-11-055-832-1002	Seq
41	35	43.2	1076	6	US-10-467-657-7916	Seq
42	35	43.2	1113	7	US-11-055-822-368	Seq
43	35	43.2	1113	7	US-11-055-822-1000	Seq
44	34.5	42.6	667	6	US-10-821-234-1477	Seq
45	34	42.0	179	7	US-11-102-240-154	Seq

ALIGNMENTS

```

RESULT 1
US-11-077-886-34
; Sequence 34, Application US/11077886
; Publication No. US2005026436A1
; GENERAL INFORMATION:
; APPLICANT: Sobek, Harald
; APPLICANT: Frey, Bruno
; APPLICANT: Antziankian, Garabed
; APPLICANT: Boehlke, Kristelina
; APPLICANT: Piesani, Francesca Maria
; APPLICANT: Rossi, Mose
; TITLE OF INVENTION: Mutant B-type DNA Polymerases Exhibiting
; FILE REFERENCE: 5328
; CURRENT APPLICATION NUMBER: US/11/077, 886
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: US/09/803,165
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: EP/00105155.6
; PRIOR FILING DATE: 2000-03-11
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 34
; LENGTH: 774
; TYPE: PRT
; ORGANISM: T. aggregans
US-11-077-886-34
Query Match 51.9%; Score 42; DB 7; Length 774;
Best Local Similarity 58.8%; Pred. No. 33;
Matches 10; Conservative 1; Mismatches 6; Indels 0;
Cy 1 KIXEKLKIKGKICGL 17
DB 562 KAKEFLKIKSKLPGL 578
RESULT 2
US-10-467-657-1734
; Sequence 1734, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:

```

rformance in i

;; CURRENT APPLICATION NUMBER: US/10/467,657
;; CURRENT FILING DATE: 2003-08-11
;; PRIOR APPLICATION NUMBER: GB-0103424.8
;; PRIOR FILING DATE: 2001-02-12
;; NUMBER OF SEQ ID NOS: 9218
;; SOFTWARE: SeqMin99, version 1.04
;; SEQ ID NO 1734
;; LENGTH: 558
;; TYPE: PRN
;; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1734

Query Match 50.6%; Score 41; DB 6; Length 558;
Best Local Similarity 50.0%; Pred. No. 32;
Matches 7; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

OY 2 IKKELKKIKGKIQGL 15
DB 446 IKDKIRAIQKRYG 459

RESULT 3
US-10-981-873-47
;; Sequence 47, Application US/10981873
;; Publication No. US20050250680A1
;; GENERAL INFORMATION:
;; APPLICANT: Malensky, Loren D.
;; APPLICANT: Korsmeyer, Stanley J.
;; TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
;; FILE OF INVENTION: USES THEREOF
;; FILE REFERENCE: 00530-124001
;; CURRENT APPLICATION NUMBER: US/10/981,873
;; CURRENT FILING DATE: 2004-11-05
;; PRIOR APPLICATION NUMBER: US 60/517,848
;; PRIOR FILING DATE: 2003-11-05
;; PRIOR APPLICATION NUMBER: US 60/591,548
;; PRIOR FILING DATE: 2004-07-27
;; NUMBER OF SEQ ID NOS: 117
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 47
;; LENGTH: 270
;; TYPE: PRN
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Consensus sequence
;; FEATURE:
;; NAME/KEY: VARIANT
;; LOCATION: 77, 114, 123, 168, 221
;; OTHER INFORMATION: Xaa = any amino acid
US-10-981-873-47

Query Match 48.1%; Score 39; DB 6; Length 270;
Best Local Similarity 41.2%; Pred. No. 28;
Matches 7; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

OY 1 KIKKELKKIKGKIQGL 17
DB 46 KYKEKFOJRHRIQPV 62

RESULT 4
US-10-793-626-1842
;; Sequence 1842, Application US/10793626
;; Publication No. US20050255478A1
;; GENERAL INFORMATION:
;; APPLICANT: KIMMERLY, WILLIAM JOHN
;; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
;; FILE REFERENCE: PUS480US
;; CURRENT APPLICATION NUMBER: US/10/793,626
;; CURRENT FILING DATE: 2004-03-04
;; PRIOR APPLICATION NUMBER: 60/164,258
;; PRIOR FILING DATE: 1999-11-09

;; NUMBER OF SEQ ID NOS: 4472
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 1842
;; LENGTH: 181
;; TYPE: PRN
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: synt
;; OTHER INFORMATION: amino acid sequence
US-10-793-626-1842

Query Match 46.9%; Score 38; DB 6; Length 181;
Best Local Similarity 53.3%; Pred. No. 26;
Matches 8; Conservative 2; Mismatches 5; Indels 0;

OY 3 KKKLKKIKGKIQGL 17
DB 14 KKKLSKVSLLTIGVL 28

RESULT 5
US-10-821-234-1374
;; Sequence 1374, Application US/10821234
;; Publication No. US20050255114A1
;; GENERAL INFORMATION:
;; APPLICANT: Labat, Ivan
;; APPLICANT: Stache-Crain, Birgit
;; APPLICANT: Andarmani, Susan
;; APPLICANT: Tang, Y. Tom
;; TITLE OF INVENTION: Methods for Diagnosis and Treatment of p
;; FILE OF INVENTION: 821A
;; FILE REFERENCE: 821A
;; CURRENT APPLICATION NUMBER: US/10/821,234
;; CURRENT FILING DATE: 2004-04-07
;; PRIOR APPLICATION NUMBER: US 60/462,047
;; PRIOR FILING DATE: 2003-04-07
;; NUMBER OF SEQ ID NOS: 1704
;; SOFTWARE: PL_SEQ_genes Version 1.0
;; SEQ ID NO 1374
;; LENGTH: 293
;; TYPE: PRN
;; ORGANISM: Homo sapiens
US-10-821-234-1374

Query Match 46.9%; Score 38; DB 6; Length 293;
Best Local Similarity 50.0%; Pred. No. 44;
Matches 8; Conservative 4; Mismatches 4; Indels 0;

OY 2 IKKELKKIKGKIQGL 17
DB 183 IKKELTQIKQKVDL 198

RESULT 6
US-10-878-556A-56
;; Sequence 56, Application US/10878556A
;; Publication No. US20050266399A1
;; GENERAL INFORMATION:
;; APPLICANT: Hoffmann La-Roche Inc.
;; TITLE OF INVENTION: HCV regulated protein expression
;; FILE REFERENCE: 21762
;; CURRENT APPLICATION NUMBER: US/10/878,556A
;; CURRENT FILING DATE: 2004-06-28
;; NUMBER OF SEQ ID NOS: 199
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 56
;; LENGTH: 306
;; TYPE: PRN
;; ORGANISM: Homo sapiens
;; PUBLICATION INFORMATION:
;; DATABASE ACCESSION NUMBER: sw_hum/roc_human
;; DATABASE ENTRY DATE: 1988-08-01
US-10-878-556A-56

Query Match	46.9%	Score 38;	DB 6;	Length 306;
Best Local Similarity	50.0%;	Pred. No. 46;		
Matches	8;	Conservative	4;	Mismatches 4; Indels 0; Gaps 0

Qy	2	IKELTKIGQIGLL	17
		:: :: ::	
Db	196	IKELTQIKQVDSLL	211

RESULT 7
US-10-984-645-2

Query Match	46.9%	Score 38	DB 6	Length 1618
Best Local Similarity	58.3%	Pred. No.	2.9e+02	
Matches	7	Conservative	3	Mismatches 2
				Indels 0
				Gaps 0

QY 3 KEKLLKIGQKIQ 14
Db 542 KETLKSIGEEIQ 55

```

RESULT 8
US-11-068-783-106
; Sequence 106, Application US/11068783
; Publication No. US2005026075A1
; GENERAL INFORMATION:
; APPLICANT: Burian, Jan
; APPLICANT: Bartfeld, Daniel
; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
; TITLE OF INVENTION: ANTIMICROBIAL CATIONIC PEPTIDES IN HOST CELLS
; FILE REFERENCE: 660081 411
; CURRENT APPLICATION NUMBER: US/11/068,783
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: US/09/444,281
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 106
; LENGTH: 39
; TYPE: PR1
; ORGANISM: Sacrophaga peregrina
US-11-068-783-106

```

Query Match	46.3%;	Score 37.5;	DB 7;	Length 39;
Best Local Similarity	42.9%;	Pred. No. 5.6;		

Matches	9;	Conservative	5;	Mismatches	2;	Indels	1;
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```
Qy      1 KIKEKTKKIGQ-----KIGGL 16
Db      5 KIGKIERVGQHTRDATIGGL 25
```

```

RESULT 9
US-11-068-783-57
; Sequence 57, Application US/11068783
; Publication No. US20050260715A1
; GENERAL INFORMATION:
; APPLICANT: Burian, Jan
; APPLICANT: Bartfeld, Daniel
; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
; TITLE OF INVENTION: ANTIMICROBIAL CATIONIC PEPTIDES IN HOS
; FILE REFERENCE: 660081.411
; CURRENT APPLICATION NUMBER: US/11/068,783
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: US/09/444,281
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Hyalophora cecropia
; US-11-068-783-57

```

Query Match 45.7%; Score 37; DB 7; Length 37;
Best Local Similarity 42.9%; Pred. No. 6.3;
Matches 6; Conservative 6; Mismatches 2; Indels 0;

QY	1	KIKEKTKKIGÖKIÖ	14
		: : : : :	
Db	3	KLFKKIEKVGÖNIR	16

```

RESULT 10
US-11-123-182-4
? Sequence 4, Application US/11123182
? Publication No. US20050267031A1
? GENERAL INFORMATION:
? APPLICANT: YU, XIANGXANG
? APPLICANT: WAGNER, THOMAS E.
? TITLE OF INVENTION: THERAPEUTIC PORE-FORMING PEPTIDES
? FILE REFERENCE: 035879/0122
? CURRENT APPLICATION NUMBER: US/11/123,182
? CURRENT FILING DATE: 2005-05-06
? PRIOR APPLICATION NUMBER: US/09/851,422
? PRIOR FILING DATE: 2001-05-09
? PRIOR APPLICATION NUMBER: 60/203,063
? PRIOR FILING DATE: 2000-05-09
? PRIOR APPLICATION NUMBER: 60/212,042
? PRIOR FILING DATE: 2000-06-16
? NUMBER OF SEQ ID NOS: 12
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 4
? LENGTH: 37
? TYPE: PRT
? ORGANISM: Antheraea pernyi
? FEATURE:
? OTHER INFORMATION: Cecropin A
? US-11-123-182-4

```

Query Match	45.7%;	Score 37;	DB 7;	Length 37;
Best Local Similarity	42.9%;	Pred. No. 6.3;		
Matches	6;	Conservative	6;	Mismatches 2;
				Indels 0;

Qy	1	KIKEKTKKIGQKIQ	14
		: :: :	
Db	3	KLfKKIEKVGQNIr	16

```
RESULT 11
US-11-053-076-168
; Sequence 168, Application US/11053076
; Publication No. US20050255460A1
; GENERAL INFORMATION:
; APPLICANT: Lu, Peter S.
; APPLICANT: Schweizer, Johannes
; APPLICANT: Somoza Diaz-Sarmiento, Chamorro
; APPLICANT: Belmares, Michael P.
; TITLE OF INVENTION: METHODS OF DIAGNOSING CERVICAL CANCER
; FILE REFERENCE: VITA-008CTP
; CURRENT FILING DATE: 2005-02-07
; PRIOR APPLICATION NUMBER: PCT/US03/28508
; PRIOR FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: 10/630,590
; PRIOR FILING DATE: 2003-07-29
; PRIOR APPLICATION NUMBER: 60/490,094
; PRIOR FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: 60/450,464
; PRIOR FILING DATE: 2003-02-27
; PRIOR APPLICATION NUMBER: 60/409,298
; PRIOR FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: 10/630,590
; PRIOR FILING DATE: 2003-07-29
; PRIOR APPLICATION NUMBER: PCT/US02/24655
; PRIOR FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: 60/309,841
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 60/360,061
; PRIOR FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: 10/080,273
; PRIOR FILING DATE: 2002-02-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 168
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-053-076-168

Query Match      45.7%; Score 37; DB 7; Length 92;
Best Local Similarity 41.2%; Pred. No. 17;
Matches 7; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY      1 KIKKXKKIGQKIGQL 17
      ::|||::|||
Db      62 EVEKVKKSGSRVWFL 78

RESULT 12
US-10-793-626-564
; Sequence 564, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 564
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
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```
US-10-793-626-564

Query Match      45.7%; Score 37; DB 6; Length 122;
Best Local Similarity 35.7%; Pred. No. 23;
Matches 5; Conservative 7; Mismatches 2; Indels 0;

QY      1 KIKKXKKIGQKIQ 14
      ::|||::|||
Db      107 LKXQLEEVGASVE 120

RESULT 13
US-10-793-626-2828
; Sequence 2828, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2828
; LENGTH: 183
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synl
; OTHER INFORMATION: amino acid sequence
US-10-793-626-2828

Query Match      45.7%; Score 37; DB 6; Length 183;
Best Local Similarity 70.0%; Pred. No. 37;
Matches 7; Conservative 2; Mismatches 1; Indels 0;

QY      3 KKKXKKIGOK 12
      ::|||::|||
Db      42 BKXKKLQAK 51

RESULT 14
US-10-793-626-1178
; Sequence 1178, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1178
; LENGTH: 741
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synt
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1178

Query Match      45.7%; Score 37; DB 6; Length 741;
Best Local Similarity 53.8%; Pred. No. 1,7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0;

QY      1 KIKKXKKIGQKI 13
      ::|||::|||
Db      131 KSKDKFKKVTETKI 143
```


RESULT 15

US-11-068-783-107
; Sequence 107, Application US/11068783
; Publication No. US20050260715A1
; GENERAL INFORMATION:
; APPLICANT: Burtan, Jan
; APPLICANT: Bartfeld, Daniel
; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
; TITLE OF INVENTION: ANTIMICROBIAL CATIONIC PEPTIDES IN HOST CELLS
; FILE REFERENCE: 66081.411
; CURRENT APPLICATION NUMBER: US/11/068,783
; PRIORITY FILING DATE: 2005-02-28
; PRIORITY FILING DATE: US/09/444,281
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 107
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Sacrophaga peregrina
US-11-068-783-107

Query Match 44.4%; Score 36; DB 7; Length 39;
Best Local Similarity 77.8%; Pred. No. 9.3;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 6 LKXIGQKIQ 14
|||:|:
Db 3 LKXIGKITE 11

Search completed: December 16, 2005, 03:10:12
Job time : 3.64765 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 65.1931 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-26
Perfect score: 81
Sequence: 1 KIKKELKKIKGKIGSL 17

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	81	100.0	32 4 US-10-131-433-1	Sequence 1, Appli
2	81	100.0	37 4 US-10-060-102-5	Sequence 5, Appli
3	81	100.0	37 4 US-10-721-839-5	Sequence 5, Appli
4	81	100.0	37 5 US-10-721-829-5	Sequence 5, Appli
5	74	91.4	37 4 US-10-344-709C-15	Sequence 15, Appli
6	74	91.4	171 4 US-10-344-709C-7	Sequence 7, Appli
7	56	69.1	31 5 US-10-399-442A-2	Sequence 2, Appli
8	56	69.1	32 4 US-10-344-709C-1	Sequence 1, Appli
9	56	69.1	36 5 US-10-478-771A-4	Sequence 4, Appli
10	56	69.1	36 5 US-10-470-048B-599	Sequence 599, App
11	56	69.1	39 4 US-10-060-102-1	Sequence 1, Appli
12	56	69.1	39 4 US-10-721-839-1	Sequence 1, Appli
13	56	69.1	39 5 US-10-721-829-1	Sequence 1, Appli
14	56	69.1	173 4 US-10-344-709C-5	Sequence 5, Appli
15	50	61.7	36 4 US-10-263-171A-2	Sequence 2, Appli
16	49	60.5	39 4 US-10-060-102-2	Sequence 2, Appli
17	49	60.5	39 4 US-10-721-839-2	Sequence 2, Appli
18	49	60.5	39 5 US-10-721-829-2	Sequence 2, Appli
19	48	59.3	324 4 US-10-389-566-1171	Sequence 1171, Ap
20	48	59.3	326 4 US-10-233-926-25	Sequence 25, Appli
21	48	59.3	326 4 US-10-389-566-1172	Sequence 1172, Ap
22	48	59.3	1156 4 US-10-369-493-43	Sequence 43, Appli
23	47	58.0	205 5 US-10-994-726-628	Sequence 628, App
24	47	58.0	228 5 US-10-994-726-627	Sequence 627, App
25	47	58.0	306 4 US-10-724-972A-6154	Sequence 6154, Ap
26	46	56.8	104 4 US-10-424-599-245241	Sequence 245241,
27	46	56.8	190 4 US-10-424-599-225312	Sequence 225312,

28	46	56.8	191 5 US-10-739-930-8924	Seq	Ap
29	46	56.8	194 4 US-10-233-926-6	Seq	li
30	46	56.8	318 4 US-10-389-566-673	Seq	pp
31	46	56.8	318 4 US-10-389-566-674	Seq	pp
32	46	56.8	363 4 US-10-233-926-20	Seq	p1
33	45	55.6	37 4 US-10-344-709C-12	Seq	p1
34	45	55.6	157 4 US-10-767-701-47315	Seq	A
35	45	55.6	325 4 US-10-437-963-178781	Seq	
36	45	55.6	329 4 US-10-233-926-24	Seq	p1
37	45	55.6	329 4 US-10-389-566-1173	Seq	Ap
38	45	55.6	331 4 US-10-233-926-23	Seq	p1
39	45	55.6	331 4 US-10-389-566-1174	Seq	Ap
40	45	55.6	569 4 US-10-425-115-340213	Seq	
41	45	55.6	663 4 US-10-282-122A-51673	Seq	
42	45	55.6	829 4 US-10-369-493-5082	Seq	A
43	44	54.3	60 4 US-10-437-963-148381	Seq	
44	44	54.3	199 4 US-10-425-114-40325	Seq	A
45	44	54.3	216 4 US-10-424-599-194227	Seq	

ALIGNMENTS

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RESULT 1
US-10-131-433-1
; Sequence 1, Application US/10131433
; Publication No. US20030054422A1
; GENERAL INFORMATION:
; APPLICANT: UNILEVER, PLC
; TITLE OF INVENTION: Lipopolysaccharide Immunoassay and Test
; FILE REFERENCE: Lipopolysaccharide Immunoassay
; CURRENT APPLICATION NUMBER: US/10/131,433
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US/09/545,180
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Lactine
US-10-131-433-1

Query Match      100.0%; Score 81; DB 4; Length 32
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 17; Conservative 0; Mismatches 0; Indels 0;

Cy      1 KIKKELKKIKGKIGSL 17
Db      12 KIKKELKKIKGKIGSL 28

RESULT 2
US-10-060-102-5
; Sequence 5, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32

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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-060-102-5

Query Match 100.0%; Score 81; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIKKKKKKIGKIQGL 17
DB 12 KIKKKKKKIGKIQGL 28

RESULT 3
US-10-721-839-5
Sequence 5, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
TITLE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA:03505

CURRENT FILING DATE: 2003-11-25
CURRENT APPLICATION NUMBER: US/10/721,839

PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5

LENGTH: 37
TYPE: PRT

ORGANISM: Ovis aries
US-10-721-839-5

Query Match 100.0%; Score 81; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIKKKKKKIGKIQGL 17
DB 12 KIKKKKKKIGKIQGL 28

RESULT 4
US-10-721-829-5
Sequence 5, Application US/10721829
Publication No. US2005011376A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
TITLE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA:03505

CURRENT FILING DATE: 2003-11-25
CURRENT APPLICATION NUMBER: US/10/721,829

PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5

LENGTH: 37
TYPE: PRT

ORGANISM: Ovis aries
US-10-721-829-5

PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5

Query Match 100.0%; Score 81; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.00014;
Matches 17; Conservative 0; Mismatches 0; Indels 0;

QY 1 KIKKKKKKIGKIQGL 17
DB 12 KIKKKKKKIGKIQGL 28

RESULT 5
US-10-344-709C-15
Sequence 15, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:

APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one anti
TITLE OF INVENTION: derived antimicrobial peptide or a deri
FILE REFERENCE: SONN:03005

CURRENT FILING DATE: 2003-02-14
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: PCT/EP01/09529

PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15

LENGTH: 37
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

US-10-344-709C-15

Query Match 91.4%; Score 74; DB 4; Length 37;
Best Local Similarity 88.2%; Pred. No. 0.0014;
Matches 15; Conservative 1; Mismatches 1; Indels 0;

QY 1 KIKKKKKKIGKIQGL 17
DB 12 KIKKKKKKIGKIQGL 28

RESULT 6
US-10-344-709C-7
Sequence 7, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:

APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one anti
TITLE OF INVENTION: derived antimicrobial peptide or a deri
FILE REFERENCE: SONN:03005

CURRENT FILING DATE: 2003-02-14
CURRENT APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000

PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7

LENGTH: 37
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

US-10-344-709C-15

LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-7

Query Match 91.4%; Score 74; DB 4; Length 171;
Best Local Similarity 88.2%; Pred. No. 0.0067;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KIKKELKKIKGKIQGL 17
DB 146 KIKKELKKIKGKIQGFV 162

RESULT 7
US-10-399-442A-2
Sequence 2, Application US/10399442A
Publication No. US20050063978A1
GENERAL INFORMATION:
APPLICANT: Jorg Filtz et al.
TITLE OF INVENTION: Vaccine Composition Comprising an Antigen and a Peptide
FILE REFERENCE: SONN:031US
CURRENT APPLICATION NUMBER: US/10/399,442A
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: PCT/EP01/12041
PRIOR FILING DATE: 2001-10-18
PRIOR APPLICATION NUMBER: Austrian A 1789/00
PRIOR FILING DATE: 2000-10-18
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 31
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-399-442A-2

Query Match 69.1%; Score 56; DB 5; Length 31;
Best Local Similarity 85.7%; Pred. No. 0.48;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KIKKELKKIKGKIQ 14
DB 12 KIKKELKKIKGKIX 25

RESULT 8
US-10-344-709C-1
Sequence 1, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
FILE REFERENCE: SONN:030US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 32
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy de
US-10-344-709C-1

Query Match 69.1%; Score 56; DB 4; Length 32;
Best Local Similarity 85.7%; Pred. No. 0.5;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 KIKKELKKIKGKIQ 14
DB 13 KIKKELKKIKGKIX 26

RESULT 9
US-10-478-771A-4
Sequence 4, Application US/10478771A
Publication No. US2004024831A1
GENERAL INFORMATION:
APPLICANT: LINGNAU, KAREN
APPLICANT: SCHILLACK
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIC MOI
FILE REFERENCE: SONN:042US
CURRENT APPLICATION NUMBER: US/10/478,771A
CURRENT FILING DATE: 2003-11-21
PRIOR APPLICATION NUMBER: PCT/EP02/05448
PRIOR FILING DATE: 2002-05-17
PRIOR APPLICATION NUMBER: A605/2001
PRIOR FILING DATE: 2001-05-21
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 36
TYPE: PRT
ORGANISM: Mus musculus
US-10-478-771A-4

Query Match 69.1%; Score 56; DB 5; Length 36;
Best Local Similarity 85.7%; Pred. No. 0.56;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 KIKKELKKIKGKIQ 14
DB 12 KIKKELKKIKGKIX 25

RESULT 10
US-10-470-048B-599
Sequence 599, Application US/10470048B
Publication No. US2005003744A1
GENERAL INFORMATION:
APPLICANT: MEINKE ET AL.
TITLE OF INVENTION: A METHOD FOR IDENTIFICATION, ISOLATION,
FILE REFERENCE: SONN:035US
CURRENT APPLICATION NUMBER: US/10/470,048B
CURRENT FILING DATE: 2003-07-25
NUMBER OF SEQ ID NOS: 603
SOFTWARE: PatentIn version 3.1
SEQ ID NO 599
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-470-048B-599

Query Match 69.1%; Score 56; DB 5; Length 36;
Best Local Similarity 85.7%; Pred. No. 0.56;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 KIKKELKKIKGKIQ 14

Db 12 KIGEKLKXIGQKIX 25

RESULT 11

US-10-060-102-1
; Sequence 1, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-060-102-1

Query Match 69.1%; Score 56; DB 4; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.61;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KIKKELKXIGQKIQ 14

Db 14 KIGEKLKXIGQKIX 27

RESULT 12

US-10-721-839-1
; Sequence 1, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-839-1

Query Match 69.1%; Score 56; DB 4; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.61;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KIKKELKXIGQKIQ 14
Db 14 KIGEKLKXIGQKIX 27

RESULT 13

US-10-721-829-1
; Sequence 1, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-829-1

Query Match 69.1%; Score 56; DB 5; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.61;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 KIKKELKXIGQKIQ 14

Db 14 KIGEKLKXIGQKIX 27

RESULT 14

US-10-344-709C-5
; Sequence 5, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; TITLE OF INVENTION: derived antimicrobial peptide or a deri
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-344-709C-5

Query Match 69.1%; Score 56; DB 4; Length 173;

Best Local Similarity 85.7%; Pred. No. 2.8;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 KIKKTKKIGQK 14
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 Db 148 KIKKTKKIGQK 161

RESULT 15

US-10-269-171A-2
 ; Sequence 2, Application US/10269171A
 ; Publication No. US20030095979A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Frank Matner
 ; APPLICANT: Wolfgang Zauner
 ; APPLICANT: Walter Schmidt
 ; APPLICANT: Michael Buschle
 ; TITLE OF INVENTION: Pharmaceutical preparations comprising modified
 ; FILE REFERENCE: SONN:020US
 ; CURRENT APPLICATION NUMBER: US/10/269,171A
 ; PRIOR APPLICATION NUMBER: PCT/EP01/04313
 ; PRIOR FILING DATE: 2001-04-17
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 36
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
 ; FEATURE:
 ; NAME/KEY: MOD_RES
 ; LOCATION: (22)
 ; OTHER INFORMATION: Xaa = anything
 US-10-269-171A-2

Query Match 61.7%; Score 50; DB 4; Length 36;
 Best Local Similarity 78.6%; Pred. No. 4.1;
 Matches 11; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 KIKKTKKIGQK 14
 |||||
 Db 12 KIKKTKKIGQK 25

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 Job time : 66.1931 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 19.0125 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-26
Perfect score: 81
Sequence: 1 KIKKTKKIGKIGQL 17

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	81	100.0	171	1	US-08-313-681A-4
2	81	100.0	171	2	US-09-322-911-4
3	63	77.8	29	1	US-08-313-681A-7
4	63	77.8	29	2	US-09-322-911-7
5	56	69.1	33	4	PCT-US95-12080-4
6	48	59.3	326	4	US-09-735-846-25
7	48	59.3	326	2	US-10-233-926-25
8	47	58.0	205	2	US-09-830-230A-628
9	47	58.0	228	2	US-09-830-230A-627
10	47	58.0	306	2	US-09-134-001C-4678
11	46	56.8	194	2	US-09-735-846-6
12	46	56.8	194	2	US-10-233-926-6
13	46	56.8	363	2	US-09-735-846-20
14	46	56.8	363	2	US-10-233-926-20
15	45	55.6	329	2	US-09-735-846-24
16	45	55.6	329	2	US-10-233-926-24
17	45	55.6	331	2	US-09-735-846-23
18	45	55.6	331	2	US-10-233-926-23
19	44	54.3	90	2	US-09-489-039A-11539
20	44	54.3	434	2	US-09-489-039A-8456
21	43	53.1	281	1	US-08-284-465-6
22	43	53.1	428	1	US-08-476-008-42
23	43	53.1	428	1	US-08-306-063-42
24	43	53.1	428	1	US-08-833-485-42
25	43	53.1	428	2	US-09-137-440-42
26	43	53.1	1105	2	US-09-540-236-3299
27	42	51.9	774	2	US-09-803-165-34

28	42	51.9	952	2	US-09-328-352-5611	Set	Ap
29	41.5	51.2	1770	2	US-10-144-198-44	Set	p1
30	41.5	51.2	2221	2	US-10-144-198-30	Set	p1
31	41	50.6	99	2	US-09-134-001C-3848	Set	Ap
32	41	50.6	101	2	US-09-461-697-204	Set	pp
33	41	50.6	161	2	US-09-640-211A-1054	Set	Ap
34	41	50.6	390	2	US-09-543-681A-5753	Set	Ap
35	41	50.6	450	2	US-09-248-796A-1513	Set	A
36	41	50.6	519	2	US-08-997-445D-2	Set	11
37	41	50.6	617	2	US-09-134-001C-4012	Set	Ap
38	41	50.6	2710	1	US-08-568-459A-12	Set	p1
39	41	50.6	2710	1	US-08-487-826B-12	Set	p1
40	41	50.6	2710	2	US-09-210-288-12	Set	p1
41	41	50.6	2730	2	US-10-153-273-12	Set	p1
42	41	50.6	3060	1	US-08-487-826B-14	Set	p1
43	41	50.6	3421	2	US-09-452-638-53	Set	p1
44	41	50.6	3421	2	US-09-121-587A-13	Set	p1
45	40.5	50.0	319	2	US-09-328-352-6042	Set	Ap

ALIGNMENTS

RESULT 1
US-08-313-681A-4
Sequence 4, Application US/0813681A
Patent No. 5618675
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Michimasa
TITLE OF INVENTION: Human Cationic Proteins Having Lipopolysaccharide Binding and Anti-
TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSES: Townsend and Townsend Kourile and Crew
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-313-681A-4
Query Match 100.0%; Score 81; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. NO. 0.0003;
Matches 17; Conservative 0; Mismatches 0; Indels 0;
QY 1 KIKKTKKIGKIGQL 17
DB 146 KIKKTKKIGKIGQL 162

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RESULT 2
US-09-322-911-4
Sequence 4, Application US/09322911
Patent No. 6103888
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-Coagulant Activity
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fites, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-322-911-4

Query Match 100.0%; Score 81; DB 2; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.0003;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Patent No. 5618675
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-Co
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note= "Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
US-08-313-681A-7

Query Match 77.8%; Score 63; DB 1; Length 29;
Best Local Similarity 82.4%; Pred. No. 0.021;
Matches 14; Conservative 0; Mismatches 3; Indels 0;
```

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CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fites, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note= "Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
US-09-322-911-7

Query Match 77.8%; Score 63; DB 2; Length 29;
Best Local Similarity 82.4%; Pred. No. 0.021;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIKKKKKKIGQIGLL 17
DB 12 KIKKKKKKIGQIXIXL 28

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RESULT 5
PCT-US95-12080-4
Sequence 4, Application PC/TUS9512080
GENERAL INFORMATION:
APPLICANT: Children's Medical Center Corporation

```

```

TITLE OF INVENTION: Synducin Mediated Modulation of Tissue
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: Patrea L. Pabst
STREET: 2800 One Atlantic Center
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/12080
FILING DATE:
CLASSIFICATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-815-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
PCT-US95-12080-4

Query Match 69.1%; Score 56; DB 4; Length 33;
Best Local Similarity 85.7%; Pred. No. 0.23;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

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QY 1 KIKKKKKKIGQIK 14
DB 9 KIKKKKKKIGQIK 22

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RESULT 6
US-09-735-846-25
Sequence 25, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
FILE REFERENCE: B01419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-09-735-846-25

```

```

Query Match 59.3%; Score 48; DB 2; Length 326;
Best Local Similarity 57.1%; Pred. No. 23;
Matches 8; Conservative 5; Mismatches 1; Indels 0;

QY 1 KIKKKKKKIGQIK 14
DB 205 KVEQGEKVEKIQ 218

```

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RESULT 7
US-10-233-926-25
Sequence 25, Application US/10233926
Patent No. 6900369

```

```

1 GENERAL INFORMATION:
2 APPLICANT: Allen, Stephen M.
3 APPLICANT: Kinney, Anthony J.
4 APPLICANT: Falco, S. Carl
5 TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
6 FILE REFERENCE: BR419 US NA
7 CURRENT APPLICATION NUMBER: US/10/233,926
8 PRIOR FILING DATE: 2002-09-03
9 PRIOR APPLICATION NUMBER: US/09/735,846
10 PRIOR FILING DATE: 2000-12-13
11 NUMBER OF SEQ ID NOS: 25
12 SOFTWARE: Microsoft Office
13 SEQ ID NO 25
14 LENGTH: 326
15 TYPE: PR1
16 ORGANISM: Brassica napus
17 US-10-233-926-25

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Query Match	59.3%	Score 48;	Length 326;
Best Local	57.1%	Pred. NO. 23;	
Matches	8;	Conservative	5;
		Mismatches	1;
		Indels	0;
		Gaps	0;

Qy	1	KIKEKLKIGQKIQ	14
		: : : :	
Db	205	KVKEQQEKVGEKIQ	216

```

RESULT 8
US-09-830-230A-628
Sequence 628. Application US/09830230A
Patent No. 6902893
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Lyme Disease Vaccines
FILE REFERENCE: PB481US
CURRENT APPLICATION NUMBER: US/09/830,230A
CURRENT FILING DATE: 2001-09-27
PRIORITY APPLICATION NUMBER: PCT/US98/12718
PRIORITY FILING DATE: 1998-06-18
PRIORITY APPLICATION NUMBER: 60/057,483
PRIORITY FILING DATE: 1997-09-03
PRIORITY APPLICATION NUMBER: 60/053,344
PRIORITY FILING DATE: 1997-07-22
PRIORITY APPLICATION NUMBER: 60/053,377
PRIORITY FILING DATE: 1997-07-22
PRIORITY APPLICATION NUMBER: 60/050,359
PRIORITY FILING DATE: 1997-06-20
NUMBER OF SEQ ID NOS: 756
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 628
LENGTH: 205
TYPE: PRT
ORGANISM: Homo sapiens
US-09-830-230A-628

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Query Match	58.0%	Score	47	DB	2	Length	205
Best Local Similarity	53.3%	Pred.	No. 21				
Matches	8	Conservative	5	Mismatches	2	Indels	0
				Gaps			0

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QY      1 KIKEKLKIGQKIG 15
        ||::|||::|
Db      188 KIEELKNIGETVG 202
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RESULT 9
US-09-830-230A-627
Sequence 627, Application US/09803230A
Patent No. 6902893
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Lyme Disease Vaccines
FILE REFERENCE: P6481US
CURRENT APPLICATION NUMBER: US/09/830, 230A

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? CURRENT FILING DATE: 2001-09-27
? PRIOR APPLICATION NUMBER: PCT/US98/42718
? PRIOR FILING DATE: 1998-06-18
? PRIOR APPLICATION NUMBER: 60/057,483
? PRIOR FILING DATE: 1997-09-03
? PRIOR APPLICATION NUMBER: 60/053,344
? PRIOR FILING DATE: 1997-07-22
? PRIOR APPLICATION NUMBER: 60/053,377
? PRIOR FILING DATE: 1997-07-22
? PRIOR APPLICATION NUMBER: 60/050,359
? PRIOR FILING DATE: 1997-06-20
? NUMBER OF SEQ ID NOS: 756
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 627
? LENGTH: 228
? TYPE: PRT
? ORGANISM: Homo sapiens
? OS-09-830-230A-627

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Query Match	58.0%;	Score 47;	DB 2;	Length 228
Best Local Similarity	53.3%;	Pred. No. 23;		
Matches	8;	Conservative	5;	Mismatches 2;
				Indels

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QY      1 KIKKELKKIGQKIQG 15
        ||:::|||:::|
DB      211 KIEBELKNIGETVEG 225

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RESULT 10
US-09-134-001C-4678
: Sequence 4678, Application US/09134001C
: Patent No. 6180370
:
: GENERAL INFORMATION:
: APPLICANT: Lynn Doucette-Stamm et al
: TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RE
: TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPE
: FILE REFERENCE: GTC-007
:
: CURRENT APPLICATION NUMBER: US/09/134,001C
: PRIORITY FILING DATE: 1998-08-13
: PRIOR APPLICATION NUMBER: US 60/064,964
: PRIOR FILING DATE: 1997-11-08
: PRIOR APPLICATION NUMBER: US 60/055,779
: PRIOR FILING DATE: 1997-08-14
: NUMBER OF SEQ ID NOS: 5674
: SEQ ID NO 4678
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: LENGTH: 306
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: TYPE: PR1
: ORGANISM: Staphylococcus epidermidis
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: US-09-134-001C-4678

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Best Local Similarity	61.5%;	Pred. No. 30;		
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QY      1 KIKEKLLKKIGQKI 13
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Db      163 KIKKRLKLLGDKV 175
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RESULT 11
US-09-735-846-6
Sequence 6, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kihney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999

NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 194
TYPE: PRT
ORGANISM: Glycine max
US-09-735-846-6

Query Match 56.8%; Score 46; DB 2; Length 194;
Best Local Similarity 57.1%; Pred. No. 28;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KIKETLKKIGQKIQ 14
Db 133 KVKHEQKVGKGIQ 146

RESULT 12
US-10-233-926-6
Sequence 6, Application US/10233926
Patent No. 6900369
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/10/233,926
CURRENT FILING DATE: 2002-09-03
PRIOR APPLICATION NUMBER: US/09/735,846
PRIOR FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 194
TYPE: PRT
ORGANISM: Glycine max
US-10-233-926-6

Query Match 56.8%; Score 46; DB 2; Length 194;
Best Local Similarity 57.1%; Pred. No. 28;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KIKETLKKIGQKIQ 14
Db 133 KVKHEQKVGKGIQ 146

RESULT 13
US-09-735-846-20
Sequence 20, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 20
LENGTH: 363
TYPE: PRT
ORGANISM: Glycine max
US-09-735-846-20

Query Match 56.8%; Score 46; DB 2; Length 363;
Best Local Similarity 57.1%; Pred. No. 49;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KIKETLKKIGQKIQ 14
Db 243 KVKHEQKVGKGIQ 256

RESULT 14
US-10-233-926-20
Sequence 20, Application US/10233926
Patent No. 6900369
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/10/233,926
CURRENT FILING DATE: 2002-09-03
PRIOR APPLICATION NUMBER: US/09/735,846
PRIOR FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 20
LENGTH: 363
TYPE: PRT
ORGANISM: Glycine max
US-10-233-926-20

Query Match 56.8%; Score 46; DB 2; Length 363;
Best Local Similarity 57.1%; Pred. No. 49;
Matches 8; Conservative 4; Mismatches 2; Indels 0;

Qy 1 KIKETLKKIGQKIQ 14
Db 243 KVKHEQKVGKGIQ 256

RESULT 15
US-09-735-846-24
Sequence 24, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 24
LENGTH: 329
TYPE: PRT
ORGANISM: Brassica napus
US-09-735-846-24

Query Match 55.6%; Score 45; DB 2; Length 329;
Best Local Similarity 50.0%; Pred. No. 62;
Matches 7; Conservative 6; Mismatches 1; Indels 0;

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Db 212 KVKHEQKVGKGIQ 225

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.28972 Seconds
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44.120 Million cell updates/sec

Title: US-09-642-744E-25
Perfect score: 73
Sequence: 1 KIKKTKIKGKIQG 15

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51463

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	38	52.1	1618	US-10-984-645-2	Sequence 2, Appl
3	37	50.7	37	US-11-068-783-57	Sequence 57, Appl
4	37	50.7	37	US-11-123-182-4	Sequence 4, Appl
5	37	50.7	122	US-10-793-626-564	Sequence 564, App
6	37	50.7	183	US-10-793-626-2828	Sequence 2828, Ap
7	37	50.7	741	US-10-793-626-1178	Sequence 1178, Ap
8	36	49.3	39	US-11-068-783-106	Sequence 106, App
9	36	49.3	39	US-11-068-783-107	Sequence 107, App
10	36	49.3	270	US-10-981-873-47	Sequence 47, Appl
11	36	49.3	431	US-11-169-013-2	Sequence 2, Appl
12	36	49.3	908	US-10-467-657-1070	Sequence 1070, Ap
13	36	49.3	4868	US-11-044-111-24	Sequence 24, Appl
14	35	47.9	35	US-11-123-182-5	Sequence 5, Appl
15	35	47.9	269	US-10-821-234-1684	Sequence 1684, Ap
16	35	47.9	301	US-10-793-626-206	Sequence 206, App
17	35	47.9	315	US-10-878-556A-178	Sequence 178, App
18	35	47.9	333	US-10-821-234-1036	Sequence 1036, Ap
19	35	47.9	488	US-10-485-517-1307	Sequence 1307, App
20	35	47.9	490	US-11-069-642-23	Sequence 23, Appl
21	35	47.9	514	US-10-821-234-998	Sequence 998, App
22	35	47.9	935	US-10-995-561-1012	Sequence 1012, Ap
23	35	47.9	935	US-10-995-561-1013	Sequence 1013, Ap
24	35	47.9	1076	US-10-467-657-7916	Sequence 7916, Ap
25	34.5	47.3	667	US-10-821-234-1477	Sequence 1477, Ap

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29	34	46.6	179	7	US-11-177-987-43	Seq
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33	34	46.6	474	6	US-10-793-626-946	Seq
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43	34	46.6	2828	7	US-11-080-991-54	Seq
44	34	46.6	2828	7	US-11-186-284-49	Seq
45	33.5	45.9	181	6	US-10-467-657-1918	Seq

ALIGNMENTS

```

RESULT 1
US-10-467-657-1734
; Sequence 1734, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetha
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqMan99, version 1.04
; SEQ ID NO 1734
; LENGTH: 558
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1734

Query Match      56.2%  Score 41; DB 6; Length 558
Best Local Similarity 50.0%  Pred. No. 24;
Matches 7; Conservative 4; Mismatches 3; Indels 0;

OY      2 IKKTKIKGKIQG 15
Db      446 IKDKIRAIQKVG 459

RESULT 2
US-10-984-645-2
; Sequence 2, Application US/10984645
; Publication No. US20050244386A1
; GENERAL INFORMATION:
; APPLICANT: Habener, Joel
; APPLICANT: Zuluski, Hendrik
; APPLICANT: Abraham, Elizabeth
; APPLICANT: Vallejo, Mario
; TITLE OF INVENTION: METHOD OF TRANSPLANTING IN A MAMMAL ANT
; TITLE OF INVENTION: BY ADMINISTERING A PSEUDO-ISLET LIKE AN
; FILE REFERENCE: 3284/1223
; CURRENT APPLICATION NUMBER: US/10/984,645
; CURRENT FILING DATE: 2004-11-09

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;; PRIOR APPLICATION NUMBER: US 09/731,255
;; PRIOR FILING DATE: 2000-12-06
;; PRIOR APPLICATION NUMBER: US 60/169,082
;; PRIOR FILING DATE: 1999-12-06
;; PRIOR APPLICATION NUMBER: US 60/215,109
;; PRIOR FILING DATE: 2000-06-28
;; PRIOR APPLICATION NUMBER: US 60/239,880
;; PRIOR FILING DATE: 2000-10-06
;; NUMBER OF SEQ ID NOS: 55
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 2
;; LENGTH: 1618
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-984-645-2

Query Match 52.1%; Score 38; DB 6; Length 1618;
Best Local Similarity 58.3%; Pred. No. 2.1e+02;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Oy 3 KEKLEKKIGOKIQ 14
Db 542 KETLKSLGEERIQ 553

RESULT 3
US-11-068-783-57
;; Sequence 57, Application US/11068783
;; Publication No. US20050260715A1
;; GENERAL INFORMATION:
;; APPLICANT: Bartfeld, Daniel
;; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
;; TITLE OF INVENTION: ANTIMICROBIAL CATIONIC PEPTIDES IN HOST CELLS
;; FILE REFERENCE: 660081.411
;; CURRENT APPLICATION NUMBER: US/11/068,783
;; CURRENT FILING DATE: 2005-02-28
;; PRIOR APPLICATION NUMBER: US/09/444,281
;; PRIOR FILING DATE: 1999-11-19
;; NUMBER OF SEQ ID NOS: 113
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 57
;; LENGTH: 37
;; TYPE: PRT
;; ORGANISM: Hyalophora cecropia
US-11-068-783-57

Query Match 50.7%; Score 37; DB 7; Length 37;
Best Local Similarity 42.9%; Pred. No. 5.1;
Matches 6; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Oy 1 KIKKLEKKIGOKIQ 14
Db 3 KLFKKIKKVGONIR 16

RESULT 4
US-11-123-182-4
;; Sequence 4, Application US/11123182
;; Publication No. US20050267031A1
;; GENERAL INFORMATION:
;; APPLICANT: YU, XIANGHANG
;; APPLICANT: WAGNER, THOMAS E.
;; TITLE OF INVENTION: THERAPEUTIC PORE-FORMING PEPTIDES
;; FILE REFERENCE: 035879/0122
;; CURRENT APPLICATION NUMBER: US/11/123,182
;; CURRENT FILING DATE: 2005-05-06
;; PRIOR APPLICATION NUMBER: US/09/851,422
;; PRIOR FILING DATE: 2001-05-09
;; PRIOR APPLICATION NUMBER: 60/203,063
;; PRIOR FILING DATE: 2000-05-09
;; PRIOR APPLICATION NUMBER: 60/212,042
;; PRIOR FILING DATE: 2000-06-16

;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 4
;; LENGTH: 37
;; TYPE: PRT
;; ORGANISM: Antherea pernyi
;; FEATURE:
;; OTHER INFORMATION: Cecropin A
US-11-123-182-4

Query Match 50.7%; Score 37; DB 7; Length 37;
Best Local Similarity 42.9%; Pred. No. 5.1;
Matches 6; Conservative 6; Mismatches 2; Indels 0;

Oy 1 KIKKLEKKIGOKIQ 14
Db 3 KLFKKIKKVGONIR 16

RESULT 5
US-10-793-626-564
;; Sequence 564, Application US/10793626
;; Publication No. US20050255478A1
;; GENERAL INFORMATION:
;; APPLICANT: KIMMERLY, WILLIAM JOHN
;; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
;; FILE REFERENCE: P03480US
;; CURRENT APPLICATION NUMBER: US/10/793,626
;; CURRENT FILING DATE: 2004-03-04
;; PRIOR APPLICATION NUMBER: 60/164,258
;; PRIOR FILING DATE: 1999-11-09
;; NUMBER OF SEQ ID NOS: 4472
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 564
;; LENGTH: 122
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: synt
;; OTHER INFORMATION: amino acid sequence
US-10-793-626-564

Query Match 50.7%; Score 37; DB 6; Length 122;
Best Local Similarity 35.7%; Pred. No. 19;
Matches 5; Conservative 7; Mismatches 2; Indels 0;

Oy 1 KIKKLEKKIGOKIQ 14
Db 107 KLEQLEBVGASVE 120

RESULT 6
US-10-793-626-2828
;; Sequence 2828, Application US/10793626
;; Publication No. US20050255478A1
;; GENERAL INFORMATION:
;; APPLICANT: KIMMERLY, WILLIAM JOHN
;; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
;; FILE REFERENCE: P03480US
;; CURRENT APPLICATION NUMBER: US/10/793,626
;; CURRENT FILING DATE: 2004-03-04
;; PRIOR APPLICATION NUMBER: 60/164,258
;; PRIOR FILING DATE: 1999-11-09
;; NUMBER OF SEQ ID NOS: 4472
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2828
;; LENGTH: 183
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: synt
;; OTHER INFORMATION: amino acid sequence
US-10-793-626-2828

Query Match 50.7%; Score 37; DB 6; Length 183;
Best Local Similarity 70.0%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 3 KEKTKKIGOK 12
Db 42 EKKTKKLGAK 51

RESULT 7
US-10-793-626-1178
; Sequence 1178, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; FILE REFERENCE: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; CURRENT APPLICATION NUMBER: PU3480US
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1178
; LENGTH: 741
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-1178

Query Match 50.7%; Score 37; DB 6; Length 741;
Best Local Similarity 53.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KIKKTKKIGOKI 13
Db 131 KSKDKKVKTEKI 143

RESULT 8
US-11-068-783-106
; Sequence 106, Application US/11068783
; Publication No. US20050260715A1
; GENERAL INFORMATION:
; APPLICANT: Burian, Jan
; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
; FILE REFERENCE: 660081.411
; CURRENT APPLICATION NUMBER: US/11/068,783
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: US/09/444,281
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 106
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Sacrophaga peregrina
US-11-068-783-106

Query Match 49.3%; Score 36; DB 7; Length 39;
Best Local Similarity 77.8%; Pred. No. 7.6;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 6 LKKIGOKIQ 14
Db 3 LKKIGKIE 11

RESULT 9
US-11-068-783-107
; Sequence 107, Application US/11068783
; Publication No. US20050260715A1
; GENERAL INFORMATION:
; APPLICANT: Burian, Jan
; TITLE OF INVENTION: EFFICIENT METHODS FOR PRODUCING
; FILE REFERENCE: 660081.411
; CURRENT APPLICATION NUMBER: US/11/068,783
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: US/09/444,281
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 107
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Sacrophaga peregrina
US-11-068-783-107

Query Match 49.3%; Score 36; DB 7; Length 39;
Best Local Similarity 77.8%; Pred. No. 7.6;
Matches 7; Conservative 2; Mismatches 0; Indels 0;

Qy 6 LKKIGOKIQ 14
Db 3 LKKIGKIE 11

RESULT 10
US-10-981-873-47
; Sequence 47, Application US/10981873
; Publication No. US20050250680A1
; GENERAL INFORMATION:
; APPLICANT: Walensky, Loren D.
; APPLICANT: Korsmeyer, Stanley J.
; TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
; FILE REFERENCE: 00530-124001
; CURRENT APPLICATION NUMBER: US/10/981,873
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US 60/517,848
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: US 60/591,548
; PRIOR FILING DATE: 2004-07-27
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 270
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
; NAME/KEY: VARIANT
; LOCATION: 77, 114, 123, 168, 221
; OTHER INFORMATION: Xaa = any amino acid
US-10-981-873-47

Query Match 49.3%; Score 36; DB 6; Length 270
Best Local Similarity 42.9%; Pred. No. 62;
Matches 6; Conservative 5; Mismatches 3; Indels 0;

Qy 1 KIKKTKKIGOKIQ 14
Db 46 KVKKFKQQLRRRIQ 59

RESULT 11
US-11-169-013-2

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; Sequence 2, Application US/11169013
; Publication No. US20050244971A1
; GENERAL INFORMATION:
; APPLICANT: Korea Kumho Petrochemical Co., Ltd.
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH ENHANCED STRESS TOLERANCE
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/11/169,013
; CURRENT FILING DATE: 2005-06-29
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Koparentin 1.71
; SEQ ID NO 2
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-169-013-2

Query Match      49.3%; Score 36; DB 7; Length 431;
Best Local Similarity 63.6%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 EKKKKGKIQ 14
      ||||| |::|
Db      384 EKKKKINOELQ 394

RESULT 12
US-10-467-657-1070
; Sequence 1070, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: Seqwinn9, version 1.04
; SEQ ID NO 1070
; LENGTH: 908
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1070

Query Match      49.3%; Score 36; DB 6; Length 908;
Best Local Similarity 50.0%; Pred. No. 2.3e+02;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2 IKERKKIKGKIQ 15
      :|||: |::|
Db      874 VKERKLPQIMAKVDG 887

RESULT 13
US-11-044-111-24
; Sequence 24, Application US/11044111
; Publication No. US20050272362A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Wen
; APPLICANT: Strasburg, Gale
; APPLICANT: Linz, John
; TITLE OF INVENTION: Genetic Test for PGE-Susceptible Turkeys
; FILE REFERENCE: MSU-09308
; CURRENT APPLICATION NUMBER: US/11/044,111
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
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; LENGTH: 4868
; TYPE: PRT
; ORGANISM: Melaleucis gallopavo
US-11-044-111-24

Query Match      49.3%; Score 36; DB 7; Length 4868
Best Local Similarity 50.0%; Pred. No. 1.4e+03;
Matches 7; Conservative 4; Mismatches 3; Indels 0;

QY      1 KIKERKKIKGKIQ 14
      ||::|::|::|
Db      4368 KTKKKKKRHGQKLE 4381

RESULT 14
US-11-123-182-5
; Sequence 5, Application US/11123182
; Publication No. US20050267031A1
; GENERAL INFORMATION:
; APPLICANT: YU, XIANGHANG
; APPLICANT: MAGNER, THOMAS E.
; TITLE OF INVENTION: THERAPEUTIC PORE-FORMING PEPTIDES
; FILE REFERENCE: 035879/0122
; CURRENT APPLICATION NUMBER: US/11/123,182
; CURRENT FILING DATE: 2005-05-06
; PRIOR APPLICATION NUMBER: US/09/851,422
; PRIOR FILING DATE: 2001-05-09
; PRIOR APPLICATION NUMBER: 60/203,063
; PRIOR FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: 60/212,042
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Antheraea pernyi
; FEATURE:
; OTHER INFORMATION: Cecropin B
US-11-123-182-5

Query Match      47.9%; Score 35; DB 7; Length 35;
Best Local Similarity 42.9%; Pred. No. 9.6;
Matches 6; Conservative 6; Mismatches 2; Indels 0;

QY      1 KIKERKKIKGKIQ 14
      ||::|::|::|
Db      3 KIKFKIKKVGKRNIR 16

RESULT 15
US-10-821-234-1684
; Sequence 1684, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andamanj, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of P
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1684
; LENGTH: 269
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1684
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Query Match 47.9%; Score 35; DB 6; Length 269;
Best Local Similarity 21.4%; Pred No. 86;
Matches 3; Conservative 9; Mismatches 2; Indels 0; Gaps 0;
Qy 2 IREKUKKIGQKIQG 15
::: :|::|
Db 18 VRQRISRLGQRMSG 31

Search completed: December 16, 2005, 03:10:11
Job time : 2.34235 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 57.5234 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-25
Perfect score: 73
Sequence: 1 KIKKTKKIGKIGK 15

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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBSCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	73	100.0	32	4	US-10-131-433-1
2	73	100.0	37	4	US-10-060-102-5
3	73	100.0	37	4	US-10-721-839-5
4	73	100.0	37	4	US-10-344-709C-15
5	73	100.0	37	5	US-10-721-829-5
6	73	100.0	171	4	US-10-344-709C-7
7	56	76.7	31	5	US-10-399-442A-2
8	56	76.7	32	4	US-10-344-709C-1
9	56	76.7	36	5	US-10-478-771A-4
10	56	76.7	36	5	US-10-470-048B-599
11	56	76.7	39	4	US-10-060-102-1
12	56	76.7	39	4	US-10-721-839-1
13	56	76.7	39	5	US-10-721-829-1
14	56	76.7	173	4	US-10-344-709C-5
15	50	68.5	36	4	US-10-268-171A-2
16	49	67.1	39	4	US-10-060-102-2
17	49	67.1	39	4	US-10-721-839-2
18	49	67.1	39	5	US-10-721-829-2
19	48	65.8	324	4	US-10-389-566-1171
20	48	65.8	326	4	US-10-233-926-25
21	48	65.8	326	4	US-10-389-566-1172
22	47	64.4	205	5	US-10-994-726-628
23	47	64.4	228	5	US-10-994-726-627
24	47	64.4	306	4	US-10-724-972A-6154
25	46	63.0	194	4	US-10-233-926-6
26	46	63.0	318	4	US-10-389-566-673
27	46	63.0	318	4	US-10-389-566-674

28	46	63.0	363	4	US-10-233-926-20	Seq
29	46	63.0	1156	4	US-10-369-493-43	Seq
30	45	61.6	157	4	US-10-767-701-47315	Seq
31	45	61.6	329	4	US-10-233-926-24	Seq
32	45	61.6	329	4	US-10-389-566-1173	Seq
33	45	61.6	331	4	US-10-233-926-23	Seq
34	45	61.6	331	4	US-10-389-566-1174	Seq
35	45	61.6	569	4	US-10-425-115-340213	Seq
36	45	61.6	663	4	US-10-282-122A-51673	Seq
37	44	60.3	60	4	US-10-437-963-148381	Seq
38	44	60.3	387	5	US-10-472-928-2252	Seq
39	44	60.3	477	4	US-10-437-963-184421	Seq
40	44	60.3	829	4	US-10-369-493-5082	Seq
41	43	58.9	79	4	US-10-424-599-225574	Seq
42	43	58.9	428	3	US-09-861-636-42	Seq
43	43	58.9	428	3	US-09-464-099A-42	Seq
44	43	58.9	428	4	US-10-369-493-23174	Seq
45	43	58.9	447	5	US-10-732-923-20250	Seq

ALIGNMENTS

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RESULT 1
US-10-131-433-1
; Sequence 1, Application US/10131433
; Publication No. US20030054422A1
; GENERAL INFORMATION:
; APPLICANT: UNILEVER, PLC
; TITLE OF INVENTION: Lipopolysaccharide Immunoassay and Test
; FILE REFERENCE: Lipopolysaccharide Immunoassay
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US/09/545,180
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Lactine
US-10-131-433-1

Query Match      100.0%; Score 73; DB 4; Length 32
Best Local Similarity 100.0%; Pred. No. 0.0013;
Matches 15; Conservative 0; Mismatches 0; Indels 0;

QY      1 KIKKTKKIGKIGK 15
DB      12 KIKKTKKIGKIGK 26

RESULT 2
US-10-060-102-5
; Sequence 5, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOWA.03505
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Ovis aries
US-10-060-102-5
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Query Match          100.0%; Score 73; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 KIKKELKKIGQKIQ 15
        |||
Db      12 KIKKELKKIGQKIQ 26
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RESULT 3
US-10-721-839-5
; Sequence 5, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
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; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THERA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:03505
; CURRENT APPLICATION NUMBER: US/10/721,839
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Ovis aries
US-10-721-839-5
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Query Match          100.0%; Score 73; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 KIKKELKKIGQKIQ 15
        |||
Db      12 KIKKELKKIGQKIQ 26
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```
RESULT 4
US-10-344-709C-15
; Sequence 15, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
```

```
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
; TITLE OF INVENTION: derived antimicrobial peptide or a derivative thereof
; FILE REFERENCE: SONN:03005
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
```

```
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-344-709C-15
```

```
Query Match          100.0%; Score 73; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 15; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 KIKKELKKIGQKIQ 15
        |||
Db      12 KIKKELKKIGQKIQ 26
```

```
RESULT 5
US-10-721-829-5
; Sequence 5, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
```

```
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:03505
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Ovis aries
US-10-721-829-5
```

```
Query Match          100.0%; Score 73; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 15; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 KIKKELKKIGQKIQ 15
        |||
Db      12 KIKKELKKIGQKIQ 26
```

```
RESULT 6
US-10-344-709C-7
; Sequence 7, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
```

```
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; TITLE OF INVENTION: derived antimicrobial peptide or a deri
; FILE REFERENCE: SONN:03005
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
```

```

; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-7

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```

Query Match          100.0%; Score 73; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 KIKKELKKIKGKIQ 15
         |||||||
Db      146 KIKKELKKIKGKIQ 160

```

```

RESULT 7
US-10-399-442A-2
; Sequence 2, Application US/10399442A
; Publication No. US20050063978A1
; GENERAL INFORMATION:
; APPLICANT: Jorg Fritze et al.
; TITLE OF INVENTION: Vaccine Composition Comprising an Antigen and a Peptide
; FILE REFERENCE: SONN.031US
; CURRENT APPLICATION NUMBER: US/10/399,442A
; CURRENT FILING DATE: 2003-04-17
; PRIOR APPLICATION NUMBER: PCT/EP01/12041
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: Austrian A 1789/00
; PRIOR FILING DATE: 2000-10-18
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-399-442A-2

```

```

Query Match          76.7%; Score 56; DB 5; Length 31;
Best Local Similarity 85.7%; Pred. No. 0.37;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 KIKKELKKIKGKIQ 14
         |||||||
Db      12 KIKKELKKIKGKIK 25

```

```

RESULT 8
US-10-344-709C-1
; Sequence 1, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
; FILE REFERENCE: SONN.030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

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```

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-1

```

```

Query Match          76.7%; Score 56; DB 4; Length 32;
Best Local Similarity 85.7%; Pred. No. 0.38;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

```

```

QY      1 KIKKELKKIKGKIQ 14
         |||||||
Db      13 KIKKELKKIKGKIK 26

```

```

RESULT 9
US-10-478-771A-4
; Sequence 4, Application US/10478771A
; Publication No. US2004024831A1
; GENERAL INFORMATION:
; APPLICANT: LINGNAU, KAREN
; APPLICANT: SCHELLACK
; APPLICANT: SCHMIDT, WALTER
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEIC MOI
; FILE REFERENCE: SONN.042US
; CURRENT APPLICATION NUMBER: US/10/478,771A
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/EP02/05448
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: A805/2001
; PRIOR FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-478-771A-4

```

```

Query Match          76.7%; Score 56; DB 5; Length 36;
Best Local Similarity 85.7%; Pred. No. 0.42;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

```

```

QY      1 KIKKELKKIKGKIQ 14
         |||||||
Db      12 KIKKELKKIKGKIK 25

```

```

RESULT 10
US-10-470-048B-599
; Sequence 599, Application US/10470048B
; Publication No. US20050037444A1
; GENERAL INFORMATION:
; APPLICANT: MEINKE ET AL.
; TITLE OF INVENTION: A METHOD FOR IDENTIFICATION, ISOLATION AND
; FILE REFERENCE: SONN.035US
; CURRENT APPLICATION NUMBER: US/10/470,048B
; CURRENT FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 599
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-470-048B-599

```

```

Query Match          76.7%; Score 56; DB 5; Length 36;
Best Local Similarity 85.7%; Pred. No. 0.42;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

```

```

QY      1 KIKKELKKIKGKIQ 14
         |||||||

```

Db 12 KIGEKLKKGQKIK 25

RESULT 11

US-10-060-102-1
; Sequence 1, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-060-102-1

Query Match 76.7%; Score 56; DB 4; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.46;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIGEKLKKGQKIK 14

Db 14 KIGEKLKKGQKIK 27

RESULT 12

US-10-721-839-1
; Sequence 1, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-839-1

Query Match 76.7%; Score 56; DB 4; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.46;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIGEKLKKGQKIK 14
Db 14 KIGEKLKKGQKIK 27

RESULT 13

US-10-721-829-1
; Sequence 1, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-829-1

Query Match 76.7%; Score 56; DB 5; Length 39;

Best Local Similarity 85.7%; Pred. No. 0.46;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

QY 1 KIGEKLKKGQKIK 14

Db 14 KIGEKLKKGQKIK 27

RESULT 14

US-10-344-709C-5
; Sequence 5, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; TITLE OF INVENTION: derived antimicrobial peptide or a deri
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-344-709C-5

Query Match 76.7%; Score 56; DB 4; Length 173;

Best Local Similarity 85.7%; Pred. No. 2;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KIKKKKKIGOKIQ 14
Db 148 KIKKKKKIGOKIK 161

RESULT 15

US-10-269-171A-2
; Sequence 2, Application US/10269171A
; Publication No. US2003005579A1
; GENERAL INFORMATION:
; APPLICANT: Frank Matner
; APPLICANT: Wolfgang Zauner
; APPLICANT: Walter Schmidt
; APPLICANT: Michael Buschle
; TITLE OF INVENTION: Pharmaceutical preparations comprising modified
; FILE REFERENCE: SONN:020US
; CURRENT APPLICATION NUMBER: US/10/269,171A
; PRIOR APPLICATION NUMBER: PCT/EP01/04313
; PRIOR FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (22)
; OTHER INFORMATION: Xaa = anything
; US-10-269-171A-2

Query Match 68.5%; Score 50; DB 4; Length 36;
Best Local Similarity 78.6%; Pred. No. 3.2;
Matches 11; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KIKKKKKIGOKIQ 14
Db 12 KIKKKKKIGOKIK 25

Search completed: December 16, 2005, 03:09:16
Job time : 57.5234 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 16.7757 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-25
Perfect score: 73
Sequence: 1 KIKETUKKIGOKIG 15

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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	73	100.0	171	1	US-08-313-681A-4
2	73	100.0	171	2	US-09-322-911-4
3	61	83.6	29	1	US-08-313-681A-7
4	61	83.6	29	2	US-09-322-911-7
5	56	76.7	33	4	PCT-US95-12080-4
6	48	65.8	326	2	US-09-735-846-25
7	48	65.8	326	2	US-10-233-926-25
8	47	64.4	205	2	US-09-830-230A-628
9	47	64.4	228	2	US-09-830-230A-627
10	47	64.4	306	2	US-09-134-001C-4678
11	46	63.0	194	2	US-09-735-846-6
12	46	63.0	194	2	US-10-233-926-6
13	46	63.0	363	2	US-09-735-846-20
14	46	63.0	363	2	US-10-233-926-20
15	45	61.6	329	2	US-09-735-846-24
16	45	61.6	329	2	US-10-233-926-24
17	45	61.6	331	2	US-09-735-846-23
18	45	61.6	331	2	US-10-233-926-23
19	44	60.3	434	2	US-09-489-039A-8456
20	43	58.9	281	1	US-08-284-465-6
21	43	58.9	428	1	US-08-476-008-42
22	43	58.9	428	1	US-08-306-063-42
23	43	58.9	428	1	US-08-833-485-42
24	43	58.9	428	1	US-09-137-440-42
25	43	58.9	1105	2	US-09-540-236-3299
26	42	57.5	952	2	US-09-328-352-5611
27	41	56.2	90	2	US-09-489-039A-11599

ALIGNMENTS

28	41	56.2	390	2	US-09-543-681A-5753	Seq	Ap
29	40.5	55.5	1770	2	US-10-144-198-44	Seq	p1
30	40.5	55.5	2221	2	US-10-144-198-30	Seq	p1
31	40	54.8	23	1	US-08-505-486-60	Seq	p1
32	40	54.8	23	2	US-08-801-028-60	Seq	p1
33	40	54.8	23	2	US-09-340-154-60	Seq	p1
34	40	54.8	23	2	US-09-482-611B-60	Seq	p1
35	40	54.8	23	4	PCT-US95-09338-60	Seq	p1
36	40	54.8	23	4	PCT-US95-09339-60	Seq	p1
37	40	54.8	27	1	US-08-505-486-61	Seq	p1
38	40	54.8	27	1	US-08-505-486-62	Seq	p1
39	40	54.8	27	2	US-08-801-028-61	Seq	p1
40	40	54.8	27	2	US-08-801-028-62	Seq	p1
41	40	54.8	27	2	US-09-340-154-61	Seq	p1
42	40	54.8	27	2	US-09-340-154-62	Seq	p1
43	40	54.8	27	2	US-09-482-611B-61	Seq	p1
44	40	54.8	27	2	US-09-482-611B-62	Seq	p1
45	40	54.8	27	4	PCT-US95-09338-61	Seq	p1

```

RESULT 1
US-08-313-681A-4
; Sequence 4, Application US/08313681A
; Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Michimasa
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-313-681A-4
;
Query Match 100.0%; Score 73; DB 1; Length 171
Best Local Similarity 100.0%; Pred. No. 0.0033;
Matches 15; Conservative 0; Mismatches 0; Indels 0;
Oy 1 KIKETUKKIGOKIG 15
Db 146 KIKETUKKIGOKIG 160

```

RESULT 2
US-09-322-911-4
Sequence 4, Application US/09322911
Patent No. 610388
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-Coagulant Activity
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fitch, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-322-911-4

Query Match 100.0%; Score 73; DB 2; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.0033;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIKKKKKKIGQIQ 15
|||||
Db 146 KIKKKKKKIGQIQ 160

RESULT 3
US-08-313-681A-7
Sequence 7, Application US/08313681A

Patent No. 5618675
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-C
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note= "Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
US-08-313-681A-7

Query Match 83.6%; Score 61; DB 1; Length 29;
Best Local Similarity 92.9%; Pred. No. 0.034;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

QY 1 KIKKKKKKIGQIQ 14
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Db 12 KIKKKKKKIGQIQ 25

RESULT 4
US-09-322-911-7
Sequence 7, Application US/09322911
Patent No. 610388
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-C
NUMBER OF SEQUENCES: 30

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew LLP
;; STREET: Two Embarcadero Center, 8th Floor
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94111-3834
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/322,911
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/691,280
;; FILING DATE: August 1, 1996
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/916,761
;; FILING DATE: July 17, 1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/916,765
;; FILING DATE: July 17, 1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US93/06731
;; FILING DATE: July 15, 1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/313,681
;; FILING DATE: September 27, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Fitch, Renee A.
;; REGISTRATION NUMBER: 35,136
;; REFERENCE/DOCKET NUMBER: 15325-000920
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-326-2400
;; TELEFAX: 415-326-2422
;; INFORMATION FOR SEQ ID NO: 7:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 29 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; NAME/KEY: Region
;; LOCATION: 23
;; OTHER INFORMATION: /note= "Xaa is Asp or Lys"
;; NAME/KEY: Region
;; LOCATION: 26
;; OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
;; FEATURE:
;; NAME/KEY: Region
;; LOCATION: 27
;; OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
;; US-09-322-911-7

Query Match 83.6%; Score 61; DB 2; Length 29;
Best Local Similarity 92.9%; Pred. No. 0.034;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KIKERLKKIGQKIQ 14
Db 12 KIKERLKKIGQXIQ 25

RESULT 5
PCT-US95-12080-4
; Sequence 4, Application PC/TUS9512080
; GENERAL INFORMATION:
; APPLICANT: Children's Medical Center Corporaton

;; TITLE OF INVENTION: Synducin Mediated Modulation of Tissue
;; NUMBER OF SEQUENCES: 4
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Patrea L. Pabst
;; STREET: 2800 One Atlantic Center
;; CITY: Atlanta
;; STATE: Georgia
;; COUNTRY: USA
;; ZIP: 30309-3450
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/12080
;; FILING DATE:
;; CLASSIFICATION:
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (404)-873-8794
;; TELEFAX: (404)-815-8795
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 33 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; PCT-US95-12080-4

Query Match 76.7%; Score 56; DB 4; Length 33;
Best Local Similarity 85.7%; Pred. No. 0.19;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KIKERLKKIGQKIQ 14
Db 9 KIKERLKKIGQKIK 22

RESULT 6
US-09-735-846-25
; Sequence 25, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 25
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Brassica napus
; US-09-735-846-25

Query Match 65.8%; Score 48; DB 2; Length 326;
Best Local Similarity 57.1%; Pred. No. 19;
Matches 8; Conservative 5; Mismatches 1; Indels 0;

Qy 1 KIKERLKKIGQKIQ 14
Db 205 KYKEQKEKVEKIQ 218

RESULT 7
US-10-233-926-25
; Sequence 25, Application US/10233926
; Patent No. 690369

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; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 25
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-25
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Query Match      65.8%; Score 48; DB 2; Length 326;
Best Local Similarity 57.1%; Pred. No. 19;
Matches      8; Conservative      5; Mismatches      1; Indels      0; Gaps      0;
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QY      1 KIKERLKKIKGQKIQ 14
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Db      205 KVKEQEKVGKQKIQ 218
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RESULT 8
US-09-830-230A-628
; Sequence 628, Application US/09830230A
; Patent No. 6902893
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Lyme Disease Vaccines
; FILE REFERENCE: PB481US
; CURRENT APPLICATION NUMBER: US/09/830,230A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: PCT/US98/12718
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/057,483
; PRIOR FILING DATE: 1997-09-03
; PRIOR APPLICATION NUMBER: 60/053,344
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/053,377
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/050,359
; PRIOR FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 756
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 628
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-830-230A-628
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Query Match      64.4%; Score 47; DB 2; Length 205;
Best Local Similarity 53.3%; Pred. No. 17;
Matches      8; Conservative      5; Mismatches      2; Indels      0; Gaps      0;
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QY      1 KIKERLKKIKGQKIQ 15
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Db      188 KIEBELKNIGETVEG 202
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```
RESULT 9
US-09-830-230A-627
; Sequence 627, Application US/09830230A
; Patent No. 6902893
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Lyme Disease Vaccines
; FILE REFERENCE: PB481US
; CURRENT APPLICATION NUMBER: US/09/830,230A
```

```
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: PCT/US98/12718
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/057,483
; PRIOR FILING DATE: 1997-09-03
; PRIOR APPLICATION NUMBER: 60/053,344
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/053,377
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/050,359
; PRIOR FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 756
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 627
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-830-230A-627
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Query Match      64.4%; Score 47; DB 2; Length 228;
Best Local Similarity 53.3%; Pred. No. 19;
Matches      8; Conservative      5; Mismatches      2; Indels      0;
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QY      1 KIKERLKKIKGQKIQ 15
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Db      211 KIEBELKNIGETVEG 225
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RESULT 10
US-09-134-001C-4678
; Sequence 4678, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES R:
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4678
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4678
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Query Match      64.4%; Score 47; DB 2; Length 306;
Best Local Similarity 61.5%; Pred. No. 24;
Matches      8; Conservative      4; Mismatches      1; Indels      0;
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QY      1 KIKERLKKIKGQKI 13
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Db      163 KIKERLKKLGDKV 175
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RESULT 11
US-09-735-846-6
; Sequence 6, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSF
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
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NUMBER OF SEQ ID NOS: 25
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 6
 LENGTH: 194
 TYPE: PRT
 ORGANISM: Glycine max
 US-09-735-846-6

Query Match 63.0%; Score 46; DB 2; Length 194;
 Best Local Similarity 57.1%; Pred. No. 23;
 Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 KIKKLLKIKGKIQ 14
 DB 133 KVKHQRKVKGIQ 146

RESULT 12
 US-10-233-926-6
 Sequence 6, Application US/10233926
 Patent No. 6900369
 GENERAL INFORMATION:
 APPLICANT: Allen, Stephen M.
 APPLICANT: Kinney, Anthony J.
 APPLICANT: Falco, S. Carl
 TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
 FILE REFERENCE: B1419 US NA
 CURRENT APPLICATION NUMBER: US/10/233,926
 CURRENT FILING DATE: 2002-09-03
 PRIOR APPLICATION NUMBER: US/09/735,846
 PRIOR FILING DATE: 2000-12-13
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 6
 LENGTH: 194
 TYPE: PRT
 ORGANISM: Glycine max
 US-10-233-926-6

Query Match 63.0%; Score 46; DB 2; Length 194;
 Best Local Similarity 57.1%; Pred. No. 23;
 Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 KIKKLLKIKGKIQ 14
 DB 133 KVKHQRKVKGIQ 146

RESULT 13
 US-09-735-846-20
 Sequence 20, Application US/09735846
 Patent No. 6730823
 GENERAL INFORMATION:
 APPLICANT: Allen, Stephen M.
 APPLICANT: Kinney, Anthony J.
 APPLICANT: Falco, S. Carl
 TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
 FILE REFERENCE: B1419 US NA
 CURRENT APPLICATION NUMBER: US/09/735,846
 CURRENT FILING DATE: 2000-12-13
 PRIOR APPLICATION NUMBER: 60/170,375
 PRIOR FILING DATE: 13 DECEMBER 1999
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 20
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Glycine max
 US-09-735-846-20

Query Match 63.0%; Score 46; DB 2; Length 363;
 Best Local Similarity 57.1%; Pred. No. 39;
 Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 KIKKLLKIKGKIQ 14
 DB 243 KVKHQRKVKGIQ 256

RESULT 14
 US-10-233-926-20
 Sequence 20, Application US/10233926
 Patent No. 6900369
 GENERAL INFORMATION:
 APPLICANT: Allen, Stephen M.
 APPLICANT: Kinney, Anthony J.
 APPLICANT: Falco, S. Carl
 TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
 FILE REFERENCE: B1419 US NA
 CURRENT APPLICATION NUMBER: US/10/233,926
 CURRENT FILING DATE: 2002-09-03
 PRIOR APPLICATION NUMBER: US/09/735,846
 PRIOR FILING DATE: 2000-12-13
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 20
 LENGTH: 363
 TYPE: PRT
 ORGANISM: Glycine max
 US-10-233-926-20

Query Match 63.0%; Score 46; DB 2; Length 363;
 Best Local Similarity 57.1%; Pred. No. 39;
 Matches 8; Conservative 4; Mismatches 2; Indels 0;

QY 1 KIKKLLKIKGKIQ 14
 DB 243 KVKHQRKVKGIQ 256

RESULT 15
 US-09-735-846-24
 Sequence 24, Application US/09735846
 Patent No. 6730823
 GENERAL INFORMATION:
 APPLICANT: Allen, Stephen M.
 APPLICANT: Kinney, Anthony J.
 APPLICANT: Falco, S. Carl
 TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
 FILE REFERENCE: B1419 US NA
 CURRENT APPLICATION NUMBER: US/09/735,846
 CURRENT FILING DATE: 2000-12-13
 PRIOR APPLICATION NUMBER: 60/170,375
 PRIOR FILING DATE: 13 DECEMBER 1999
 NUMBER OF SEQ ID NOS: 25
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 24
 LENGTH: 329
 TYPE: PRT
 ORGANISM: Brassica napus
 US-09-735-846-24

Query Match 61.6%; Score 45; DB 2; Length 329;
 Best Local Similarity 50.0%; Pred. No. 50;
 Matches 7; Conservative 6; Mismatches 1; Indels 0;

QY 1 KIKKLLKIKGKIQ 14
 DB 212 KVKHQRKVKGIQ 225

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GenCore version 5.1.6
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OM protein - protein search, using sw model

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Title: US-09-642-744E-23

Perfect score: 104
Sequence: 1 LKFRNKIKKIKIGOKI 21

Scoring table: BLOSUM62

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:

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- 2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
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- 8: /cgn2_6/ptodata/2/pubpaa/US66_NEW_PUB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	46.2	338	7	US-11-152-892-6
2	48	46.2	488	6	US-10-485-517-307
3	44	42.3	188	6	US-10-821-234-193
4	44	42.3	188	6	US-10-528-031-4
5	43	41.3	817	6	US-10-793-626-50
6	43	41.3	817	6	US-10-793-626-1528
7	42.5	40.9	932	7	US-11-017-550-65
8	42	40.4	741	6	US-10-793-626-1178
9	41.5	39.9	1404	6	US-10-878-556A-169
10	41	39.4	183	6	US-10-793-626-2828
11	41	39.4	426	6	US-10-467-657-1548
12	41	39.4	456	6	US-10-467-657-5786
13	41	39.4	558	6	US-10-467-657-1734
14	40	38.5	270	6	US-10-981-873-47
15	40	38.5	591	6	US-10-510-386-22
16	39.5	38.0	488	6	US-10-821-234-877
17	39.5	38.0	514	6	US-10-821-234-998
18	39	37.5	37	6	US-10-985-426-9
19	39	37.5	250	6	US-10-793-626-1124
20	39	37.5	366	6	US-10-821-234-1447
21	39	37.5	376	6	US-10-793-626-490
22	39	37.5	376	6	US-10-793-626-2260
23	39	37.5	603	6	US-10-770-726-75
24	38.5	37.0	43	6	US-10-957-887B-29
25	38	36.5	37	7	US-11-053-123-1

26	38	36.5	128	6	US-10-467-657-5274	Set
27	38	36.5	199	6	US-10-467-657-2228	Set
28	38	36.5	210	7	US-11-196-475-30	Set
29	38	36.5	319	7	US-11-184-005-7	Set
30	38	36.5	342	7	US-11-196-475-170	Set
31	38	36.5	342	7	US-11-196-475-172	Set
32	38	36.5	342	7	US-11-196-475-174	Set
33	38	36.5	344	7	US-11-196-475-176	Set
34	38	36.5	440	7	US-11-196-475-178	Set
35	38	36.5	450	7	US-11-196-475-148	Set
36	38	36.5	453	7	US-11-196-475-146	Set
37	38	36.5	453	7	US-11-196-475-152	Set
38	38	36.5	453	7	US-11-196-475-156	Set
39	38	36.5	454	7	US-11-196-475-160	Set
40	38	36.5	588	7	US-11-196-475-122	Set
41	38	36.5	650	6	US-10-467-657-1948	Set
42	38	36.5	1618	6	US-10-984-645-2	Set
43	37.5	36.1	659	6	US-10-995-561-573	Set
44	37.5	36.1	701	6	US-10-995-561-575	Set
45	37.5	36.1	751	6	US-10-995-561-578	Set

ALIGNMENTS

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RESULT 1
US-11-152-892-6
; Sequence 6, Application US/11152892
; Publication No. US20050251883A1
; GENERAL INFORMATION:
; APPLICANT: Amasino, Richard M.
; APPLICANT: Schomburg, Fritz M.
; APPLICANT: Michaels, Scott D.
; APPLICANT: Bizzell, Colleen M.
; TITLE OF INVENTION: Dwarfism Genes and Dwarf Plants
; FILE REFERENCE: 960296.97605
; CURRENT APPLICATION NUMBER: US/11/152,892
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: US/10/155,435
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Arabidopsis
US-11-152-892-6

Query Match      46.2%  Score 48;  DB 7;  Length 338
Best Local Similarity 44.4%  Pred. No. 6.2;
Matches      8;  Conservative      6;  Mismatches      4;  Indels      0;

OY      2  LKFRNKIKKIKIGOKI 19
Db      311 REFQOVEDYKFFGFKV 328

RESULT 2
US-10-485-517-307
; Sequence 307, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
; APPLICANT: University of Sheffield
; APPLICANT: Biosynex Incorporated
; APPLICANT: Foster, Simon
; APPLICANT: Mond, James
; TITLE OF INVENTION: Antigenic Polypeptides
; FILE REFERENCE: P100629WO
; CURRENT APPLICATION NUMBER: US/10/485,517
; CURRENT FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: GB 0118825.9
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: GB 0200349.9

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US-11-017-550-65
Sequence 65, Application US/11017550
Publication No. US20050250183A1
GENERAL INFORMATION:
APPLICANT: The Scripps Research Institute
APPLICANT: Schultz, Peter G
APPLICANT: Wang, Lei
APPLICANT: Anderson, John C
APPLICANT: Chin, Jason
APPLICANT: Liu, David R
APPLICANT: Meglivery, Thomas
APPLICANT: Meggers, Eric L
APPLICANT: Mehli, Ryan A
APPLICANT: Pastinak, Miro
APPLICANT: Santoro, Stephen W
APPLICANT: Zhang, Zhiwen
TITLE OF INVENTION: In Vivo Incorporation of Unnatural Amino Acids
FILE REFERENCE: 54-000120US
CURRENT APPLICATION NUMBER: US/11/017,550
CURRENT FILING DATE: 2004-12-17
PRIOR APPLICATION NUMBER: US/10/126,927
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: US 60/285,030
PRIOR FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 60/355,514
PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 79
SOFTWARE: PatentIn version 3.1
SEQ ID NO 65
LENGTH: 932
TYPE: PRT
ORGANISM: Archaeoglobus fulgidus
US-11-017-550-65

```

Query Match	40.9%	Score 42.5;	DB 7;	Length 932;
Best Local Similarity	50.0%;	Pred. No. 1e+02;		
Matches	9;	Conservative	5;	Mismatches 3;
			Indels	1;
			Gaps	1

```
QY      1 LRRFRNKIKEK-LKKIGQ 17  
        ||:||:| |:::  
Db     681 LRPFYNLVKENYLKEVGE 698
```

```

RESULT 8
US-10-793-626-1178
; Sequence 1178, Application US/107936326
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P13480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1178
; LENGTH: 741
; TYPE: PRT
; ORGANISM: Artificial Sequence
FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; US-10-793-626-1178

```

Query Match	40.4%	Score 42;	DB 6;	Length 741;
Best Local Similarity	50.0%;	Pred. No. 95;		
Matches	8;	Conservative	4;	Mismatches 4;
				Indels 0;
				Gaps 0

```
Qy      4 FRNKIKKLLKKIGQKI 19
         | : | | : | : |
Db     128 FKVKSKDKFKKVTKEI 143
```

```

RESULT 9
US-10-878-556A-169
: Sequence 169, Application US/10878556A
: Publication No. US2005026399A1
: GENERAL INFORMATION:
: APPLICANT: Hoffmann La-Roche Inc.
: TITLE OR INVENTION: HCV regulated protein expression
: FILE REFERENCE: 21762
: CURRENT APPLICATION NUMBER: US/10/878,556A
: CURRENT FILING DATE: 2004-06-28
: NUMBER OF SEQ ID NOS: 199
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 169
: LENGTH: 1404
: TYPE: PRT
: ORGANISM: Homo sapiens
: PUBLICATION INFORMATION:
: DATABASE ACCESSION NUMBER: humanngp/ch12-q14221
: DATABASE ENTRY DATE: 2003-04-22
: US-10-878-556A-169

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Query Match	39.9%;	Score 41.5;	DB 6;	length 1'
Best Local Similarity	43.5%;	Pred. No. 2.2e+02;		
Matches 10;	Conservative 7;	Mismatches 3;	Indels 1;	

Qy	1	LRKFRNKIKEKTKKIG---	QKIQ	20
		: : :		
Db	497	LRBAQNDELQVLRQIGDKDKIQ		515

RESULT 10
 US-10-793-626-2828
 Sequence 2828, Application US/10793626
 Publication No. US20050255478A1
 GENERAL INFORMATION:
 APPLICANT: KIMMERLY, WILLIAM JOHN
 TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACID
 FILE REFERENCE: P33480US
 CURRENT APPLICATION NUMBER: US/10/793, 626
 CURRENT FILING DATE: 2004-03-04
 PRIOR APPLICATION NUMBER: 60/164,258
 PRIOR FILING DATE: 1999-11-09
 NUMBER OF SEQ ID NOS: 4472
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2828
 LENGTH: 163
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: sym
 OTHER INFORMATION: amino acid sequence
 US-10-793-626-2828

Query Match	39.4%	Score 41;	DB 6;	Length 183;
Best Local Similarity	57.1%	Pred. No. 28;		
Matches	8;	Conservative	3;	Mismatches 3;
				Indels 0;

```
QY      5 RNKIKKIKKKIGQK 18
      | : : ||| | : |
Db     38 RDAEBKIKKIGAK 51
```

RESULT 11
US-10-467-657-1548
Sequence 1548, Application US/10467657
Publication No. US20050260581A1
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega

```
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: Seqwin99, version 1.04
; SEQ ID NO 1548
; LENGTH: 426
; TYPE: PRF
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1548

Query Match      39.4%; Score 41; DB 6; Length 426;
Best Local Similarity 38.1%; Pred. No. 71;
Matches 8; Conservative 7; Mismatches 4; Indels 2; Gaps 1;

Qy      1 LRKFRNKIKKELKKIGQKIQ 21
Db      18 VKEFVNVKE--KALGQEVAG 36

RESULT 12
US-10-467-657-5786
; Sequence 5786, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: Seqwin99, version 1.04
; SEQ ID NO 5786
; LENGTH: 456
; TYPE: PRF
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-5786

Query Match      39.4%; Score 41; DB 6; Length 456;
Best Local Similarity 38.1%; Pred. No. 77;
Matches 8; Conservative 7; Mismatches 4; Indels 2; Gaps 1;

Qy      1 LRKFRNKIKKELKKIGQKIQ 21
Db      48 VKEFVNVKE--KALGQEVAG 66

RESULT 13
US-10-467-657-1734
; Sequence 1734, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
```

```
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: Seqwin99, version 1.04
; SEQ ID NO 1734
; LENGTH: 558
; TYPE: PRF
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1734

Query Match      39.4%; Score 41; DB 6; Length 558;
Best Local Similarity 50.0%; Pred. No. 96;
Matches 7; Conservative 4; Mismatches 3; Indels 0;

Qy      8 IKKELKKIGQKIQ 21
Db      446 IKKIRALIAQKVYG 459

RESULT 14
US-10-981-873-47
; Sequence 47, Application US/10981873
; Publication No. US20050250680A1
; GENERAL INFORMATION:
; APPLICANT: Walensky, Loren D.
; APPLICANT: Korsmeyer, Stanley J.
; APPLICANT: Verdine, Gregory
; TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
; TITLE OF INVENTION: US85 THERIOF
; FILE REFERENCE: 00530-124001
; CURRENT APPLICATION NUMBER: US/10/981,873
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US 60/517,848
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: US 60/591,548
; PRIOR FILING DATE: 2004-07-27
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 270
; TYPE: PRF
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence
; NAME/KEY: VARIANT
; LOCATION: 77, 114, 123, 168, 221
; OTHER INFORMATION: Xaa = any amino acid
US-10-981-873-47

Query Match      38.5%; Score 40; DB 6; Length 270;
Best Local Similarity 35.0%; Pred. No. 59;
Matches 7; Conservative 6; Mismatches 7; Indels 0;

Qy      1 LRKFRNKIKKELKKIGQKIQ 20
Db      40 LTELNTVKKEKFOQLRHRIQ 59

RESULT 15
US-10-510-386-22
; Sequence 22, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Clausen, Ib Groth
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Olsen, Peter Bjarke
; APPLICANT: Raemussen, Michael Dolberg
; TITLE OF INVENTION: Improved Bacillus Host Cell
; FILE REFERENCE: 10294,204-US
; CURRENT APPLICATION NUMBER: US/10/510,386
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.3
```

; SEQ ID NO 22
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-510-386-22

Query Match 38.5%; Score 40; DB 6; Length 591;
Best Local Similarity 47.1%; Pred. No. 1.4e+02;
Matches 8; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 LRFRNKIKKKKIGQ 17
|:|:|:|:|:
Db 424 LKRLNTVKEQLKKTAE 440

Search completed: December 16, 2005, 03:10:11
Job time : 4.25824 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 80.5327 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-23
Perfect score: 104
Sequence: 1 LKFRNKIKETLKIKIGKIQG 21

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	32	4	US-10-131-433-1
2	104	100.0	37	4	US-10-060-102-5
3	104	100.0	37	4	US-10-721-838-5
4	104	100.0	37	4	US-10-344-709C-15
5	104	100.0	37	5	US-10-721-829-5
6	104	100.0	171	4	US-10-344-709C-7
7	65	62.5	31	5	US-10-399-442A-2
8	65	62.5	32	4	US-10-344-709C-1
9	65	62.5	36	5	US-10-478-771A-4
10	65	62.5	36	5	US-10-470-048B-599
11	65	62.5	39	4	US-10-060-102-1
12	65	62.5	39	4	US-10-721-839-1
13	65	62.5	39	5	US-10-721-829-1
14	65	62.5	173	4	US-10-344-709C-5
15	60	57.7	324	4	US-10-389-566-1171
16	60	57.7	326	4	US-10-233-928-25
17	60	57.7	326	4	US-10-389-566-1172
18	59	56.7	36	4	US-10-269-171A-2
19	58	55.8	129	4	US-10-424-599-264276
20	57	54.8	329	4	US-10-233-928-24
21	57	54.8	329	4	US-10-389-566-1173
22	57	54.8	331	4	US-10-233-928-23
23	57	54.8	331	4	US-10-389-566-1174
24	55	52.9	39	4	US-10-060-102-2
25	55	52.9	39	4	US-10-721-839-2
26	55	52.9	39	5	US-10-721-829-2
27	54	51.9	332	4	US-10-389-566-1816

28	52	50.0	194	4	US-10-233-926-6	Set
29	52	50.0	275	4	US-10-424-599-216393	Set
30	52	50.0	318	4	US-10-389-566-673	Set
31	52	50.0	318	4	US-10-389-566-674	Set
32	52	50.0	363	4	US-10-233-926-20	Set
33	52	50.0	1111	4	US-10-282-122A-58098	Set
34	52	50.0	1112	4	US-10-398-186-72	Set
35	51	49.0	35	4	US-10-205-150-1	Set
36	50	48.1	60	4	US-10-437-963-148381	Set
37	50	48.1	67	4	US-10-424-599-250653	Set
38	50	48.1	663	4	US-10-282-122A-51673	Set
39	50	48.1	3421	5	US-10-701-122-53	Set
40	49	47.1	51	4	US-10-424-599-264915	Set
41	49	47.1	259	4	US-10-408-765A-807	Set
42	49	47.1	288	3	US-09-942-024-21	Set
43	49	47.1	288	3	US-09-942-024-23	Set
44	49	47.1	288	3	US-09-942-098-21	Set
45	49	47.1	288	3	US-09-942-098-23	Set

ALIGNMENTS

```

RESULT 1
US-10-131-433-1
; Sequence 1, Application US/10131433
; Publication No. US20030054422A1
; GENERAL INFORMATION:
; APPLICANT: UNILEVER, PLC
; TITLE OF INVENTION: Lipopolyaccharide Immunoassay and Test
; FILE REFERENCE: Lipopolyaccharide Immunoassay
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US/10/131,433
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Lactine
US-10-131-433-1

Query Match      100.0%; Score 104; DB 4; Length 3;
Best Local Similarity 100.0%; Pred. No. 6.5e-07;
Matches 21; Conservative 0; Mismatches 0; Indels 0;

Cy      1 LKFRNKIKETLKIKIGKIQG 21
Db      6 LKFRNKIKETLKIKIGKIQG 26

RESULT 2
US-10-060-102-5
; Sequence 5, Application US/10060102
; Publication No. US2003002829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; FILE REFERENCE: IOWA:03505
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32

```

```
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-060-102-5
```

```
Query Match          100.0%; Score 104; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 7.6e-07;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 LRKFRNKIKETLKKIGQKIQG 21
Db      6 LRKFRNKIKETLKKIGQKIQG 26
```

```
RESULT 3
US-10-721-839-5
Sequence 5, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
```

```
APPLICANT: MAUDRY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-721-839-5
```

```
Query Match          100.0%; Score 104; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 7.6e-07;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 LRKFRNKIKETLKKIGQKIQG 21
Db      6 LRKFRNKIKETLKKIGQKIQG 26
```

```
RESULT 4
US-10-344-709C-15
Sequence 15, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:
```

```
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
FILE REFERENCE: SONN:030US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
```

```
LENGTH: 37
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-344-709C-15
```

```
Query Match          100.0%; Score 104; DB 4; Length 37
Best Local Similarity 100.0%; Pred. No. 7.6e-07;
Matches 21; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 LRKFRNKIKETLKKIGQKIQG 21
Db      6 LRKFRNKIKETLKKIGQKIQG 26
```

```
RESULT 5
US-10-721-829-5
Sequence 5, Application US/10721829
Publication No. US2005013776A1
GENERAL INFORMATION:
```

```
APPLICANT: MAUDRY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-721-829-5
```

```
Query Match          100.0%; Score 104; DB 5; Length 37
Best Local Similarity 100.0%; Pred. No. 7.6e-07;
Matches 21; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 LRKFRNKIKETLKKIGQKIQG 21
Db      6 LRKFRNKIKETLKKIGQKIQG 26
```

```
RESULT 6
US-10-344-709C-7
Sequence 7, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:
```

```
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one ant
FILE REFERENCE: SONN:030US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
```

thelcidin
of

LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-7

Query Match
Best Local Similarity 100.0%; Score 104; DB 4; Length 171;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKFRNKIKKIKGQKIQ 21
DB 140 LKFRNKIKKIKGQKIQ 160

RESULT 7
US-10-399-442A-2
Sequence 2, Application US/10399442A
Publication No. US20050063978A1
GENERAL INFORMATION:
APPLICANT: Jorg Fritz et al.
TITLE OF INVENTION: Vaccine Composition Comprising an Antigen and a Peptide
FILE REFERENCE: SONN:031US
CURRENT APPLICATION NUMBER: US/10/399,442A
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: PCT/EP01/12041
PRIOR FILING DATE: 2001-10-18
PRIOR APPLICATION NUMBER: Austrian A 1789/00
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 31
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-399-442A-2

Query Match
Best Local Similarity 62.5%; Score 65; DB 5; Length 31;
Matches 15; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 LKFRNKIKKIKGQKIQ 20
DB 6 LKRGKIKGKIKGQKIK 25

RESULT 8
US-10-344-709C-1
Sequence 1, Application US/10344709C
Publication No. US20040170642A1
GENERAL INFORMATION:
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
FILE REFERENCE: SONN:031US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 32
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy de
US-10-344-709C-1

Query Match
Best Local Similarity 62.5%; Score 65; DB 4; Length 32;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

QY 1 LKFRNKIKKIKGQKIQ 20
DB 7 LKRGKIKGKIKGQKIK 26

RESULT 9
US-10-478-771A-4
Sequence 4, Application US/10478771A
Publication No. US20040248831A1
GENERAL INFORMATION:
APPLICANT: LINGNAU, KAREN
APPLICANT: SCHEIDT, WALTER
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEIC MOL
FILE REFERENCE: SONN:042US
CURRENT APPLICATION NUMBER: US/10/478,771A
PRIOR FILING DATE: 2003-11-21
PRIOR APPLICATION NUMBER: PCT/EP02/05448
PRIOR FILING DATE: 2002-05-17
PRIOR APPLICATION NUMBER: A805/2001
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 36
TYPE: PRT
ORGANISM: Mus musculus
US-10-478-771A-4

Query Match
Best Local Similarity 62.5%; Score 65; DB 5; Length 36;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

QY 1 LKFRNKIKKIKGQKIQ 20
DB 6 LKRGKIKGKIKGQKIK 25

RESULT 10
US-10-470-048B-599
Sequence 599, Application US/10470048B
Publication No. US20050037444A1
GENERAL INFORMATION:
APPLICANT: MEINKE ET AL.
TITLE OF INVENTION: A METHOD FOR IDENTIFICATION, ISOLATION
FILE REFERENCE: SONN:031US
CURRENT APPLICATION NUMBER: US/10/470,048B
PRIOR FILING DATE: 2003-07-25
NUMBER OF SEQ ID NOS: 603
SOFTWARE: PatentIn version 3.1
SEQ ID NO 599
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-470-048B-599

Query Match
Best Local Similarity 62.5%; Score 65; DB 5; Length 36;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

QY 1 LKFRNKIKKIKGQKIQ 20
DB 6 LKRGKIKGKIKGQKIK 25

Db 6 LRKGEKIGKTLKKIGQIK 25

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RESULT 11
US-10-060-102-1
; Sequence 1, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-060-102-1
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Query Match 62.5% Score 65; DB 4; Length 39;
Best Local Similarity 75.0%; Pred. No. 0.13;
Matches 15; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LRKFRNKIKKTLKKIGQIK 20
Db 8 LRKGEKIGKTLKKIGQIK 27

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RESULT 12
US-10-721-839-1
; Sequence 1, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-839-1
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Query Match 62.5% Score 65; DB 4; Length 39;
Best Local Similarity 75.0%; Pred. No. 0.13;
Matches 15; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1 LRKFRNKIKKTLKKIGQIK 20
Db 8 LRKGEKIGKTLKKIGQIK 27

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RESULT 13
US-10-721-829-1
; Sequence 1, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
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; ORGANISM: Mus musculus
US-10-721-829-1
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Query Match 62.5% Score 65; DB 5; Length 39;
Best Local Similarity 75.0%; Pred. No. 0.13;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

Qy 1 LRKFRNKIKKTLKKIGQIK 20
Db 8 LRKGEKIGKTLKKIGQIK 27

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RESULT 14
US-10-344-709C-5
; Sequence 5, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-344-709C-5
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Query Match 62.5% Score 65; DB 4; Length 173;
Best Local Similarity 75.0%; Pred. No. 0.6;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

Qy 1 LKPKNKIKKKIKGOKIQ 20
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 Db 142 LKGGKIKGKKIKGOKIK 161

RESULT 15
 US-10-389-566-1171
 ; Sequence 1171, Application US/10389566
 ; Publication No. US20040025202A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Monsanto Technology, LLC
 ; APPLICANT: Laurie, Cathy C
 ; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
 ; FILE REFERENCE: 38-77(52900)D
 ; CURRENT APPLICATION NUMBER: US/10/389,566
 ; CURRENT FILING DATE: 2003-03-31
 ; PRIOR APPLICATION NUMBER: US 60/365,301
 ; PRIOR FILING DATE: 2002-03-15
 ; PRIOR APPLICATION NUMBER: US 60/391,786
 ; PRIOR FILING DATE: 2002-06-25
 ; PRIOR APPLICATION NUMBER: US 60/392,018
 ; PRIOR FILING DATE: 2002-06-26
 ; NUMBER OF SEQ ID NOS: 2459
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 1171
 ; LENGTH: 324
 ; TYPE: PRT
 ; ORGANISM: Brassica napus
 US-10-389-566-1171

Query Match 57.7%; Score 60; DB 4; Length 324;
 Best Local Similarity 50.0%; Pred. No. 5.3;
 Matches 10; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 LKPKNKIKKKIKGOKIQ 20
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 Db 197 LKGLQEKVKQOEKVKGKIQ 216

Search completed: December 16, 2005, 03:09:16
 Job time : 81.5327 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 23.486 Seconds
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73.924 Million cell updates/sec

Title: US-09-642-744E-23
Perfect score: 104
Sequence: 1 LKFRNKIKETLKKIGQKIQG 21

Scoring table:
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82655679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	104	100.0	171	1 US-08-313-681A-4	Sequence 4, Appli
2	104	100.0	171	2 US-09-322-911-4	Sequence 4, Appli
3	92	88.5	29	1 US-08-313-681A-7	Sequence 7, Appli
4	92	88.5	29	2 US-09-322-911-7	Sequence 7, Appli
5	65	62.5	33	4 PCT-US95-12080-4	Sequence 4, Appli
6	60	57.7	326	2 US-09-735-846-25	Sequence 25, Appli
7	60	57.7	326	2 US-10-233-926-25	Sequence 25, Appli
8	57	54.8	329	2 US-09-735-846-24	Sequence 24, Appli
9	57	54.8	329	2 US-10-233-926-24	Sequence 24, Appli
10	57	54.8	331	2 US-09-735-846-23	Sequence 23, Appli
11	57	54.8	331	2 US-10-233-926-23	Sequence 23, Appli
12	55	52.9	16	1 US-08-313-681A-11	Sequence 11, Appli
13	55	52.9	16	2 US-09-322-911-11	Sequence 11, Appli
14	52	50.0	194	2 US-09-735-846-6	Sequence 6, Appli
15	52	50.0	194	2 US-10-233-926-6	Sequence 6, Appli
16	52	50.0	363	2 US-09-735-846-20	Sequence 20, Appli
17	52	50.0	363	2 US-10-233-926-20	Sequence 20, Appli
18	50	48.1	3421	2 US-09-452-638-53	Sequence 53, Appli
19	50	48.1	3421	2 US-09-452-638-53	Sequence 53, Appli
20	49	47.1	190	1 US-09-121-587A-13	Sequence 13, Appli
21	49	47.1	259	2 US-08-393-985-25	Sequence 25, Appli
22	49	47.1	263	1 US-09-509-738C-25	Sequence 25, Appli
23	49	47.1	285	1 US-08-393-985-23	Sequence 23, Appli
24	49	47.1	288	1 US-08-337-602-4	Sequence 4, Appli
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26	49	47.1	288	2 US-08-819-286-3	Sequence 3, Appli
27	49	47.1	434	2 US-09-489-039A-8456	Sequence 8456, Ap

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31	48	46.2	158	1 US-08-356-397-4	Seq
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34	48	46.2	288	2 US-09-509-738C-26	Seq
35	48	46.2	338	2 US-10-155-435-6	Seq
36	48	46.2	672	2 US-09-040-843-4	Seq
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40	47	45.2	18	2 US-09-525-269A-10	Seq
41	47	45.2	90	2 US-09-489-039A-11599	Seq
42	47	45.2	141	2 US-09-270-767-42264	Seq
43	47	45.2	205	2 US-09-830-230A-628	Seq
44	47	45.2	228	2 US-09-830-230A-627	Seq
45	47	45.2	306	2 US-09-134-001C-4678	Seq

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RESULT 1
US-08-313-681A-4
; Sequence 4, Application US/0813681A
; Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirta, Mishima
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolyaccharide Binding and Anti-
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-313-681A-4

Query Match 100.0%; Score 104; DB 1; Length 1;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 21; Conservative 0; Mismatches 0; Indels 0;
Oy 1 LKFRNKIKETLKKIGQKIQG 21
Db 140 LKFRNKIKETLKKIGQKIQG 160

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RESULT 2
US-09-322-911-4
; Sequence 4, Application US/09322911
; Patent No. 6103888
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; APPLICANT: Balint, Robert F.
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-Coagulant Activity
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3634
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/322,911
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/691,280
; FILING DATE: August 1, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/916,761
; FILING DATE: July 17, 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/916,765
; FILING DATE: July 17, 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06731
; FILING DATE: July 15, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/313,681
; FILING DATE: September 27, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitch, Renee A.
; REGISTRATION NUMBER: 35,136
; REFERENCE/DOCKET NUMBER: 15325-000920
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-322-911-4

Query Match      100.0%; Score 104; DB 2; Length 171;
Best Local Similarity 100.0%; Pred. No. 1,9e-06;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; APPLICANT: Balint, Robert F.
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-C
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Stewart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Region
; LOCATION: 23
; OTHER INFORMATION: /note= "Xaa is Asp or Lys"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 26
; OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 27
; OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
; US-08-313-681A-7

Query Match      88.5%; Score 92; DB 1; Length 29;
Best Local Similarity 95.0%; Pred. No. 1.4e-05;
Matches 19; Conservative 0; Mismatches 1; Indels 0;
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US-09-322-911-4
; Sequence 4, Application US/09322911
; Patent No. 6103888
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; APPLICANT: Balint, Robert F.
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-C
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3634
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/322,911
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/691,280
; FILING DATE: August 1, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/916,761
; FILING DATE: July 17, 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/916,765
; FILING DATE: July 17, 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06731
; FILING DATE: July 15, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/313,681
; FILING DATE: September 27, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitch, Renee A.
; REGISTRATION NUMBER: 35,136
; REFERENCE/DOCKET NUMBER: 15325-000920
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-322-911-4
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US-09-322-911-4
; Sequence 4, Application US/09322911
; Patent No. 6103888
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; APPLICANT: Balint, Robert F.
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-C
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Stewart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Region
; LOCATION: 23
; OTHER INFORMATION: /note= "Xaa is Asp or Lys"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 26
; OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
; FEATURE:
; NAME/KEY: Region
; LOCATION: 27
; OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
; US-08-313-681A-7
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```

CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fite, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note="Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note="Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note="Xaa is a Gly or Gln"
US-09-322-911-7

Query Match      88.5%; Score 92; DB 2; Length 29;
Best Local Similarity 95.0%; Pred. No. 1.4e-05;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LKFRNKIKKIKKIGQKIQ 20
DB 6 LKFRNKIKKIKKIGQKIQ 25

RESULT 5
PCT-US95-12080-4
Sequence 4, Application PC/TUS9512080
GENERAL INFORMATION:
APPLICANT: Children's Medical Center Corporaton

```

```

TITLE OF INVENTION: Synducin Mediated Modulation of Tissue
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: Patrea L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/12080
FILING DATE:
CLASSIFICATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-815-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
TOPOLOGY: linear
PCT-US95-12080-4

Query Match      62.5%; Score 65; DB 4; Length 33;
Best Local Similarity 75.0%; Pred. No. 0.051;
Matches 15; Conservative 1; Mismatches 4; Indels 0;

QY 1 LKFRNKIKKIKKIGQKIQ 20
DB 3 LKGEKIKGKIKKIGQKIK 22

RESULT 6
US-09-735-846-25
Sequence 25, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
FILE REFERENCE: BB1419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-09-735-846-25

Query Match      57.7%; Score 60; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 1.9;
Matches 10; Conservative 7; Mismatches 3; Indels 0;

QY 1 LKFRNKIKKIKKIGQKIQ 20
DB 199 LKLUQEKYKQEKYKQKIQ 218

RESULT 7
US-10-233-926-25
Sequence 25, Application US/10233926
Patent No. 6900369

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; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 25
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-25

Query Match      57.7%; Score 60; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 1.9;
Matches 10; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LRKFRNKIKKELKKIGQKIQ 20
Db      199 LKKLQERVKKEQKVKGEKIQ 218

RESULT 8
US-09-735-846-24
; Sequence 24, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-735-846-24

Query Match      54.8%; Score 57; DB 2; Length 329;
Best Local Similarity 45.0%; Pred. No. 4.8;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LRKFRNKIKKELKKIGQKIQ 20
Db      206 LKKLQERVKKEQKVKGEKIQ 225

RESULT 9
US-10-233-926-24
; Sequence 24, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
```

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; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-24

Query Match      54.8%; Score 57; DB 2; Length 329;
Best Local Similarity 45.0%; Pred. No. 4.8;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LRKFRNKIKKELKKIGQKIQ 20
Db      206 LKKLQERVKKEQKVKGEKIQ 225

RESULT 10
US-09-735-846-23
; Sequence 23, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-735-846-23

Query Match      54.8%; Score 57; DB 2; Length 331;
Best Local Similarity 45.0%; Pred. No. 4.8;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy      1 LRKFRNKIKKELKKIGQKIQ 20
Db      206 LKKLQERVKKEQKVKGEKIQ 225

RESULT 11
US-10-233-926-23
; Sequence 23, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-23

Query Match      54.8%; Score 57; DB 2; Length 331;
Best Local Similarity 45.0%; Pred. No. 4.8;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;
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OY 1 LRKFRNKIKERKKIGOKIO 20
Db 206 LRKQJERVEQOEKXVEKIQ 225

RESULT 12

US-08-313-681A-11
Sequence 11, Application US/08313681A
Patent No. 5618675
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mihiyama
TITLE OF INVENTION: Human Cationic Proteins Having
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-313-681A-11

Query Match 52.9%; Score 55; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRKFRNKIKER 11
Db 6 LRKFRNKIKER 16

RESULT 13
US-09-322-911-11
Sequence 11, Application US/09322911
Patent No. 6103888
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mihiyama
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco

STATE: California
COUNTRY: USA
-ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/691,280

FILING DATE: August 1, 1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/916,761

FILING DATE: July 17, 1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/916,765

FILING DATE: July 17, 1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/313,681

FILING DATE: July 15, 1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US93/06731

FILING DATE: September 27, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Fitts, Renee A.

REGISTRATION NUMBER: 35,136

REFERENCE/DOCKET NUMBER: 15325-000920

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-326-2400

TELEFAX: 415-326-2422

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 16 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide
US-09-322-911-11

Query Match 52.9%; Score 55; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 11; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRKFRNKIKER 11
Db 6 LRKFRNKIKER 16

RESULT 14

US-09-735-846-6
Sequence 6, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSI
FILE REFERENCE: BB1419 US NA
CURRENT FILING DATE: US/09/735,846
PRIORITY FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 194
TYPE: PRT
ORGANISM: Glycine max
US-09-735-846-6

Query Match	50.0%	Score 52	DB 2	Length 194
Best Local Similarity	45.0%	Pred. No. 13		
Matches	9	Conservative	6	Mismatches 5
				Indels 0
				Gaps 0

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Qy      1 LKRFNRKIKEKLKKIGQKIQ 20
        | : : || : |: |||
Db      127 LKTLQEKVKKEHQEKVGKIQ 146
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Matches 9; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 L R K F R N K I K E K L K K I G Q K I Q 20

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Db      127 LKTLQEKVKENQEKVGKIQ 146

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RESULT 15

US-10-233-926-6

; Sequence 6, Application US/10233926

Patent No. 6900369

; GENERAL INFORMATION:

APPLICANT: Allen, Stephen M.

APPLICANT: KLIMLEY, MICHAEL J.

TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE

FILE REFERENCE: BB1419 US NA

CURRENT APPLICATION NUMBER: US/10/233,926

CURRENT FILING DATE: 2002-09-03

PRIOR APPLICATION NUMBER: US/

NUMBER OF SEQ ID NOS: 25

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; NUMBER OF SEQ ID NOS: 25
SOFTWARE: MicroSoft Office 97

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; SEQ ID NO 6

LENGTH: 194

TYPE: PRT

ORGANISM: Glycine max

US-10-233-926-6

Query Match	Score	DB	Length
50.0%	52	2	194
45.0%	13		

BBB Local Similarity 45.0%; Pred. No. 13;
Matches 9; Conservative 6; Mismatch 3

matchers 5; conservative 8; mibmatchers 5; indexers 0; gaps 0;

QY 1 LKKFKKIKKKLKKIGQKIQ 20

Db 127 LKTLQEKVKEHQEKVGEKIQ 146

Search completed: December 16, 2005, 01:24:12
Job time : 23.5386 secs

Job time : 23.5386 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.90031 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-22

Perfect score: 93

Sequence: 1 LKFRNKIKKKIKGOKI 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:*
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2: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep:*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep:*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep:*
5: /cgn2_6/ptodata/2/pubpaa/PCIT_NEW_PUB pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep:*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB pep:*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	51.6	338	7	US-11-152-892-6 Sequence 6, Appli
2	44	47.3	188	6	US-10-821-234-1393 Sequence 1393, Ap
3	44	47.3	188	6	US-10-528-031-4 Sequence 4, Appli
4	43	46.2	488	6	US-10-485-517-307 Sequence 307, App
5	43	46.2	817	6	US-10-793-626-50 Sequence 50, Appl
6	43	46.2	817	6	US-10-793-626-1528 Sequence 1528, Ap
7	42.5	45.7	932	7	US-11-017-550-65 Sequence 65, Appl
8	42	45.2	741	6	US-10-793-626-1178 Sequence 1178, Ap
9	41	44.1	183	6	US-10-793-626-2828 Sequence 2828, Ap
10	40	43.0	591	6	US-10-510-386-22 Sequence 22, Appl
11	39	41.9	603	6	US-10-770-726-75 Sequence 75, Appl
12	39	41.9	1404	6	US-10-878-556A-169 Sequence 169, App
13	38	40.9	37	6	US-10-985-426-9 Sequence 9, Appli
14	38	40.9	139	6	US-10-467-657-2328 Sequence 2328, Ap
15	38	40.9	210	7	US-11-196-475-30 Sequence 30, Appl
16	38	40.9	342	7	US-11-196-475-170 Sequence 170, App
17	38	40.9	342	7	US-11-196-475-172 Sequence 172, App
18	38	40.9	342	7	US-11-196-475-174 Sequence 174, App
19	38	40.9	344	7	US-11-196-475-176 Sequence 176, App
20	38	40.9	440	7	US-11-196-475-178 Sequence 178, App
21	38	40.9	450	7	US-11-196-475-148 Sequence 148, App
22	38	40.9	453	7	US-11-196-475-146 Sequence 146, App
23	38	40.9	453	7	US-11-196-475-152 Sequence 152, App
24	38	40.9	453	7	US-11-196-475-156 Sequence 156, App
25	38	40.9	454	7	US-11-196-475-160 Sequence 160, App

26	38	40.9	588	7	US-11-196-475-122	Sec
27	38	40.9	650	6	US-10-467-657-1948	Sec
28	37.5	40.3	43	6	US-10-957-887B-29	Sec
29	37.5	40.3	514	6	US-10-821-234-998	Sec
30	37.5	40.3	659	6	US-10-995-561-573	Sec
31	37.5	40.3	701	6	US-10-995-561-575	Sec
32	37.5	40.3	751	6	US-10-995-561-578	Sec
33	37.5	40.3	808	6	US-10-995-561-574	Sec
34	37.5	40.3	808	7	US-11-105-268-53	Sec
35	37	39.8	37	7	US-11-053-123-1	Sec
36	37	39.8	319	7	US-11-184-005-7	Sec
37	37	39.8	366	6	US-10-821-234-1447	Sec
38	37	39.8	774	7	US-11-070-627-7	Sec
39	37	39.8	1210	7	US-11-108-172-692	Sec
40	37	39.8	1548	7	US-11-108-172-1095	Sec
41	36	38.7	37	7	US-11-068-783-57	Sec
42	36	38.7	136	6	US-11-123-182-4	Sec
43	36	38.7	136	6	US-10-467-657-152	Sec
44	36	38.7	136	6	US-10-467-657-5800	Sec
45	36	38.7	136	6	US-10-467-657-7472	Sec

ALIGNMENTS

RESULT 1
US-11-152-892-6
; Sequence 6, Application US/11152892
; Publication No. US20050251883A1
; GENERAL INFORMATION:
; APPLICANT: Amsino, Richard M.
; APPLICANT: Schomburg, Fritz M.
; APPLICANT: Michaels, Scott D.
; APPLICANT: Bizzell, Colleen M.
; TITLE OF INVENTION: Dwarfism Genes and Dwarf Plants
; FILE REFERENCE: 960296.97605
; CURRENT APPLICATION NUMBER: US/11/152,892
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: US/10/155,435
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Arabidopsis
US-11-152-892-6

Query Match 51.6% Score 48; DB 7; Length 338;
Best Local Similarity 44.4% Pred. No. 4;
Matches 8; Conservative 6; Mismatches 4; Indels 0;
OY 2 RFRNKIKKKIKGOKI 19
DB 311 REFQGVQEDVKKFGFKV 328
RESULT 2
US-10-821-234-1393
; Sequence 1393, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andermani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of I
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704

SOFTWARE: pc_seq_genes Version 1.0
SEQ ID NO 1393
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapiens
US-10-821-234-1393

Query Match 47.3%; Score 44; DB 6; Length 188;
Best Local Similarity 44.4%; Pred. No. 7.6;
Matches 8; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 1 LRKFRNKIKKIKKIGQK 18
|| :||: ||: ||
DB 141 LRNLKNTLKNMKGIGLK 158

RESULT 3
US-10-528-031-4
Sequence 4, Application US/10528031
Publication No. US20050262577A1
GENERAL INFORMATION:

APPLICANT: ORIDIS BIOMED FORSCHUNG- und Entwicklungs GmbH
APPLICANT: Guelly, Christian
APPLICANT: Buck, Charles R.
APPLICANT: Zatloukal, Kurt
TITLE OF INVENTION: Polypeptides and nucleic acids encoding these and their use for the
TITLE OF INVENTION: Prevention, diagnosis or treatment of liver disorders and epithelial
FILE REFERENCE: Oridis Biomed
CURRENT APPLICATION NUMBER: US/10/528,031
CURRENT FILING DATE: 2005-03-16
NUMBER OF SEQ ID NOS: 73
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapiens
US-10-528-031-4

Query Match 47.3%; Score 44; DB 6; Length 188;
Best Local Similarity 44.4%; Pred. No. 7.6;
Matches 8; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 1 LRKFRNKIKKIKKIGQK 18
|| :||: ||: ||
DB 141 LRNLKNTLKNMKGIGLK 158

RESULT 4
US-10-485-517-307
Sequence 307, Application US/10485517
Publication No. US20050256299A1
GENERAL INFORMATION:

APPLICANT: University of Sheffield
APPLICANT: Biosynexus Incorporated
APPLICANT: Foster, Simon
APPLICANT: Mond, James
TITLE OF INVENTION: Antigenic Polypeptides
FILE REFERENCE: P100629WO
CURRENT APPLICATION NUMBER: US/10/485,517
CURRENT FILING DATE: 2004-02-02
PRIORITY APPLICATION NUMBER: GB 0118825.9
PRIORITY FILING DATE: 2001-08-02
PRIORITY APPLICATION NUMBER: GB 0200349.9
PRIORITY FILING DATE: 2002-01-09
NUMBER OF SEQ ID NOS: 424
SOFTWARE: Patentin version 3.1
SEQ ID NO 307
LENGTH: 488
TYPE: PRT
ORGANISM: Staphylococcus aureus
US-10-485-517-307

Query Match 46.2%; Score 43; DB 6; Length 488;

Best Local Similarity 41.2%; Pred. No. 29;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

QY 3 KFRNKIKKIKKIGQKI 19
|: :||: ||: ||
DB 73 KYRGFEERLKKVMEI 89

RESULT 5
US-10-793-626-50
Sequence 50, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:

APPLICANT: KIMBERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
FILE REFERENCE: P03480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIORITY APPLICATION NUMBER: 60/164,258
PRIORITY FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 50
LENGTH: 817
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synt
US-10-793-626-50

Query Match 46.2%; Score 43; DB 6; Length 817;
Best Local Similarity 41.2%; Pred. No. 51;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

QY 3 KFRNKIKKIKKIGQKI 19
|: :||: ||: ||
DB 252 KYRGFEERLKKVMEI 268

RESULT 6
US-10-793-626-1528
Sequence 1528, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:

APPLICANT: KIMBERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
FILE REFERENCE: P03480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIORITY APPLICATION NUMBER: 60/164,258
PRIORITY FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1528
LENGTH: 817
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synt
US-10-793-626-1528

Query Match 46.2%; Score 43; DB 6; Length 817;
Best Local Similarity 41.2%; Pred. No. 51;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

QY 3 KFRNKIKKIKKIGQKI 19
|: :||: ||: ||
DB 252 KYRGFEERLKKVMEI 268

RESULT 7

US-11-017-550-65
; Sequence 65, Application US/11017550
; Publication No. US20050250183A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Schultz, Peter G
; APPLICANT: Wang, Lei
; APPLICANT: Anderson, John C
; APPLICANT: Chin, Jason
; APPLICANT: Liu, David R
; APPLICANT: Magliery, Thomas
; APPLICANT: Meggers, Eric L
; APPLICANT: Mehl, Ryan A
; APPLICANT: Pasternak, Miro
; APPLICANT: Santoro, Stephen W
; APPLICANT: Zhang, Zhiwen
; TITLE OF INVENTION: In vivo Incorporation of Unnatural Amino Acids
; FILE REFERENCE: 54-000120US
; CURRENT APPLICATION NUMBER: US/11/017,550
; CURRENT FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: US/10/126,927
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,030
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 60/355,514
; PRIOR FILING DATE: 2002-02-06
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65
; LENGTH: 932
; TYPE: PRT
; ORGANISM: Archaeoglobus fulgidus
US-11-017-550-65

Query Match 45.7%; Score 42.5; DB 7; Length 932;
Best Local Similarity 50.0%; Pred. No. 69;
Matches 9; Conservative 5; Mismatches 3; Indels 1; Gaps 1;

QY 1 LRKFRNKIKER-LKKTIQ 17
DB 681 LRFRNYLVKENYLVKEVGE 698

RESULT 8
US-10-793-626-1178
; Sequence 1178, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1178
; LENGTH: 741
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1178

Query Match 45.2%; Score 42; DB 6; Length 741;
Best Local Similarity 50.0%; Pred. No. 63;
Matches 8; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 4 FRNKIKERLKKTIQ 19
DB 128 FRVSKDKFKVTETKI 143

RESULT 9
US-10-793-626-2828
; Sequence 2828, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2828
; LENGTH: 183
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: syn
; OTHER INFORMATION: amino acid sequence
US-10-793-626-2828

Query Match 44.1%; Score 41; DB 6; Length 183;
Best Local Similarity 57.1%; Pred. No. 19;
Matches 8; Conservative 3; Mismatches 3; Indels 0;

QY 5 RNKIKERLKKTIQ 18
DB 38 RDAERKIKKLGAK 51

RESULT 10
US-10-510-386-22
; Sequence 22, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Clausen, Ib Groth
; APPLICANT: Jorgensen, Steen Tyroels
; APPLICANT: Olsen, Peter Bjarke
; APPLICANT: Raasmussen, Michael Dolberg
; TITLE OF INVENTION: Improved Bacillus Host Cell
; FILE REFERENCE: 10294,204-US
; CURRENT APPLICATION NUMBER: US/10/510,386
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-510-386-22

Query Match 43.0%; Score 40; DB 6; Length 591;
Best Local Similarity 47.1%; Pred. No. 94;
Matches 8; Conservative 4; Mismatches 5; Indels 0;

QY 1 LRKFRNKIKERLKKTIQ 17
DB 424 LKKRIATVKEQLKKTAR 440

RESULT 11
US-10-770-726-75
; Sequence 75, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeich
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei

```
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; NUMBER OF SEQ ID NOS: 2004-02-04
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 75
; LENGTH: 603
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-770-726-75

Query Match      41.9%; Score 39; DB 6; Length 603;
Best Local Similarity 47.4%; Pred. No. 1.3e+02;
Matches 9; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY      1 LRKFRNKIKKIKKIGOKI 19
Db      479 LKYPFRNYSHLKAGANI 497

RESULT 12
US-10-878-556A-169
; Sequence 169, Application US/10878556A
; Publication No. US20050266399A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann La-Roche Inc.
; TITLE OF INVENTION: HCV regulated protein expression
; FILE REFERENCE: 21762
; CURRENT APPLICATION NUMBER: US/10/878,556A
; CURRENT FILING DATE: 2004-06-28
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 1404
; TYPE: PRT
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: humangp/ch12-q14221
; DATABASE ENTRY DATE: 2003-04-22
US-10-878-556A-169

Query Match      41.9%; Score 39; DB 6; Length 1404;
Best Local Similarity 36.9%; Pred. No. 3.3e+02;
Matches 7; Conservative 7; Mismatches 4; Indels 0; Gaps 0;

QY      1 LRKFRNKIKKIKKIGOK 18
Db      497 LRBAQNDLEQVLRQGDK 514

RESULT 13
US-10-985-426-9
; Sequence 9, Application US/10985426
; Publication No. US20050256069A1
; GENERAL INFORMATION:
; APPLICANT: Manoharan, Muthiah
; APPLICANT: Rajeev, Kallanthottathil G.
; TITLE OF INVENTION: RNA AGENTS WITH BIOCLEAVABLE TETHERS
; FILE REFERENCE: 14174-099001
; CURRENT APPLICATION NUMBER: US/10/985,426
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 10/916,185
; PRIOR FILING DATE: 2004-08-10
; PRIOR APPLICATION NUMBER: PCT/US2004/011829
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/465,665
; PRIOR FILING DATE: 2003-04-25
; PRIOR APPLICATION NUMBER: US 60/463,772
; PRIOR FILING DATE: 2003-04-17
; PRIOR APPLICATION NUMBER: US 60/469,612
; PRIOR FILING DATE: 2003-05-09
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; PRIOR APPLICATION NUMBER: US 60/465,802
; PRIOR FILING DATE: 2003-04-25
; PRIOR APPLICATION NUMBER: US 60/493,986
; PRIOR FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US 60/494,597
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: US 60/503,414
; PRIOR FILING DATE: 2003-09-15
; PRIOR APPLICATION NUMBER: US 60/506,341
; PRIOR FILING DATE: 2003-09-26
; Remaining Prior Application data removed - See File Wrapper
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Exemplary Cell Permeation Peptides
US-10-985-426-9

Query Match      40.9%; Score 38; DB 6; Length 37;
Best Local Similarity 44.4%; Pred. No. 8.9;
Matches 8; Conservative 5; Mismatches 5; Indels 0;

QY      2 RKRFRNKIKKIKKIGOKI 19
Db      7 RKSKEKIKKFKRIVQRI 24

RESULT 14
US-10-467-657-2328
; Sequence 2328, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetha
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2328
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2328

Query Match      40.9%; Score 38; DB 6; Length 199;
Best Local Similarity 54.5%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 2; Indels 0;

QY      6 NKIKKIKKIG 16
Db      21 NSVKETIKRVG 31

RESULT 15
US-11-196-475-30
; Sequence 30, Application US/11196475
; Publication No. US20050271682A1
; GENERAL INFORMATION:
; APPLICANT: Dattwyler, Raymond J.
; APPLICANT: Gomes Solecki, Maria J. C.
; APPLICANT: Lufc, Benjamin J.
; APPLICANT: Dunn, John J.
; TITLE OF INVENTION: Recombinant Constructs of Borrelia
```

```

; TITLE OF INVENTION: Burgdorferi
; FILE REFERENCE: 2631.1001-011
; CURRENT APPLICATION NUMBER: US/11/196,475
; PRIOR FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 08/148,191
; PRIOR FILING DATE: 1993-11-01
; PRIOR APPLICATION NUMBER: US 08/235,836
; PRIOR FILING DATE: 1994-04-29
; PRIOR APPLICATION NUMBER: US 09/666,017
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: US 60/226,484
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: PCT/US01/24736
; PRIOR FILING DATE: 2001-08-07
; NUMBER OF SEQ ID NOS: 213
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 30
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Borrelia burgdorferi
; US-11-196-475-30

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Query Match      40.9%; Score 38; DB 7; Length 210;
Best Local Similarity 46.7%; Pred. No. 58;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
OY      4 FRNKIKKKKKIGQK 18
      |||:|||||:|:|
Db      134 FTNKLKKEKHTDLGKE 148

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Search completed: December 16, 2005, 03:10:10
 Job time : 2.95294 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 72.8629 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-22

Perfect score: 93
Sequence: 1 LRKFRNKIKETLKIKIGOKI 19

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	93	100.0	32	4	US-10-131-433-1
2	93	100.0	37	4	US-10-060-102-5
3	93	100.0	37	4	US-10-721-839-5
4	93	100.0	37	4	US-10-344-709C-15
5	93	100.0	37	5	US-10-721-829-5
6	93	100.0	171	4	US-10-344-709C-7
7	64	68.8	31	5	US-10-399-442A-2
8	64	68.8	32	4	US-10-344-709C-1
9	64	68.8	36	5	US-10-478-771A-4
10	64	68.8	36	5	US-10-470-048B-599
11	64	68.8	39	4	US-10-060-102-1
12	64	68.8	39	4	US-10-721-839-1
13	64	68.8	39	5	US-10-721-829-1
14	64	68.8	173	4	US-10-344-709C-5
15	64	68.8	36	4	US-10-269-171A-2
16	55	59.1	324	4	US-10-389-566-1171
17	55	59.1	326	4	US-10-233-926-25
18	55	59.1	326	4	US-10-389-566-1172
19	54	58.1	39	4	US-10-060-102-2
20	54	58.1	39	4	US-10-721-839-2
21	54	58.1	39	5	US-10-721-829-2
22	52	55.9	329	4	US-10-233-926-24
23	52	55.9	329	4	US-10-389-566-1173
24	52	55.9	331	4	US-10-233-926-23
25	52	55.9	331	4	US-10-389-566-1174
26	52	55.9	1111	4	US-10-283-122A-58098
27	52	55.9	1112	4	US-10-398-186-22

28	51	54.8	35	4	US-10-205-150-1	Sec
29	50	53.8	67	4	US-10-424-599-250653	Sec
30	49	52.7	51	4	US-10-424-599-264915	Sec
31	49	52.7	332	4	US-10-389-566-1816	Sec
32	49	52.7	443	4	US-10-767-701-44345	Sec
33	49	52.7	3421	5	US-10-701-122-53	Sec
34	48	51.6	23	3	US-09-820-053A-55	Sec
35	48	51.6	23	3	US-10-109-171-55	Sec
36	48	51.6	23	5	US-10-839-525-55	Sec
37	48	51.6	23	6	US-11-136-186-55	Sec
38	48	51.6	155	4	US-10-336-603A-34	Sec
39	48	51.6	178	4	US-10-015-179-2	Sec
40	48	51.6	178	4	US-10-188-840-2	Sec
41	48	51.6	178	4	US-10-336-603A-32	Sec
42	48	51.6	338	4	US-10-155-435-6	Sec
43	48	51.6	439	3	US-09-815-242-5696	Sec
44	48	51.6	497	4	US-10-358-917-14	Sec
45	48	51.6	497	4	US-10-282-122A-43955	Sec

ALIGNMENTS

RESULT 1
US-10-131-433-1
; Sequence 1, Application US/10131433
; Publication No. US20030054422A1
; GENERAL INFORMATION:
; APPLICANT: UNILEVER, PLC
; TITLE OF INVENTION: Lipopolysaccharide Immunoassay and Test
; FILE REFERENCE: Lipopolysaccharide Immunoassay
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US/10/131,433
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Lactine
US-10-131-433-1

Query Match 100.0%; Score 93; DB 4; Length 32;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0;

Cy 1 LRKFRNKIKETLKIKIGOKI 19
Db 6 LRKFRNKIKETLKIKIGOKI 24
RESULT 2
US-10-060-102-5
; Sequence 5, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Ovis aries
US-10-060-102-5
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```
Query Match          100.0%; Score 93; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 LRKFRNKIKKELKKIGQKI 19
        |||||
Db       6 LRKFRNKIKKELKKIGQKI 24
```

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RESULT 3
US-10-721-839-5
; Sequence 5, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
```

```
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-721-839-5
```

```
Query Match          100.0%; Score 93; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 LRKFRNKIKKELKKIGQKI 19
        |||||
Db       6 LRKFRNKIKKELKKIGQKI 24
```

```
RESULT 4
US-10-344-709C-15
; Sequence 15, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
```

```
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
TITLE OF INVENTION: derived antimicrobial peptide or a derivative thereof
FILE REFERENCE: SONN:030US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
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; LENGTH: 37
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-344-709C-15
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```
Query Match          100.0%; Score 93; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 LRKFRNKIKKELKKIGQKI 19
        |||||
Db       6 LRKFRNKIKKELKKIGQKI 24
```

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RESULT 5
US-10-721-829-5
; Sequence 5, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
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APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 5
LENGTH: 37
TYPE: PRT
ORGANISM: Ovis aries
US-10-721-829-5
```

```
Query Match          100.0%; Score 93; DB 5; Length 37;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
```

```
OY      1 LRKFRNKIKKELKKIGQKI 19
        |||||
Db       6 LRKFRNKIKKELKKIGQKI 24
```

```
RESULT 6
US-10-344-709C-7
; Sequence 7, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
```

```
APPLICANT: JORG FRITZ ET AL.
TITLE OF INVENTION: Vaccine which comprises at least one an
TITLE OF INVENTION: derived antimicrobial peptide or a der.
FILE REFERENCE: SONN:030US
CURRENT APPLICATION NUMBER: US/10/344,709C
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: PCT/EP01/09529
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: A 1416/2000
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
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: LENGTH: 171
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURES:
: OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-7

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Query Match	100.0%;	Score 93;	DB 4;	Length 171;
Best Local Similarity	100.0%;	Pred. No. 6e-05;		
Matches 19;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

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Qy      1 LRKFRNKIKEKLKKIGQKI 19
        |||||
Db      140 LRKFRNKIKEKLKKIGQKI 158
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1      RESULT 7
2      US-10-399-442A-2
3      ; Sequence 2, Application US/10399442A
4      ; Publication No. US20050063978A1
5      ; GENERAL INFORMATION:
6      ; APPLICANT: Jorg Fritze et al.
7      ; TITLE OF INVENTION: Vaccine Composition Comprising an Antigen and a Peptide
8      ; TITLE OF INVENTION: Having Adjuvant Properties
9      ; FILE REFERENCE: SONN-031US
10     ; CURRENT APPLICATION NUMBER: US/10/399,442A
11     ; CURRENT FILING DATE: 2003-04-17
12     ; PRIOR APPLICATION NUMBER: PCT/EP01/12041
13     ; PRIOR FILING DATE: 2001-10-18
14     ; PRIOR APPLICATION NUMBER: Austrian A 1789/00
15     ; PRIOR FILING DATE: 2000-10-18
16     ; NUMBER OF SEQ ID NOS: 17
17     ; SOFTWARE: PatentIn Ver. 2.1
18     ; SEQ ID NO 2
19     ; LENGTH: 31
20     ; TYPE: PRT
21     ; ORGANISM: Artificial Sequence
22     ; FEATURE:
23     ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
24     ; SS-10-399-442A-2

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Query Match	68.8%	Score 64	DB 5	Length 31
Best Local Similarity	78.9%	Pred. No. 0.095		
Matches 15; Conservative	0	Mismatches 4	Indels 0	Gaps 0

QY 1 L R K F R N K I K E K L K K I G Q K I 19
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Db 6 L R K G E K I G E K L K K I G Q K I 24

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1  RESULT 8
2  US-10-344-709C-1
3  ; Sequence 1, Application US/10344709C
4  ; Publication No. US20040170642A1
5  ; GENERAL INFORMATION:
6  ; APPLICANT: JORG FRITZ ET AL.
7  ; TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
8  ; TITLE OF INVENTION: derived antimicrobial peptide or a derivative thereof
9  ; FILE REFERENCE: SOMN:030US
10 ; CURRENT APPLICATION NUMBER: US/10/344, 709C
11 ; CURRENT FILING DATE: 2003-02-14
12 ; PRIOR APPLICATION NUMBER: PCT/EP01/09529
13 ; PRIOR FILING DATE: 2001-08-17
14 ; PRIOR APPLICATION NUMBER: A 1416/2000
15 ; PRIOR FILING DATE: 2000-08-17
16 ; NUMBER OF SEQ ID NOS: 23
17 ; SOFTWARE: Patentin Ver. 2.1
18 ; SEQ ID NO 1
19 ; LENGTH: 32
20 ; TYPE: PRT
21 ; ORGANISM: Artificial Sequence
22 ; FEATURE:

```

US-10-344-709C-1

Query Match	68.8%;	Score 64;	DB 4;	Length 32;
Best Local Similarity	78.9%;	Pred. NO. 0.098;		
Matches 15; Conservative	0;	Mismatches 4;	Indels 0;	

```
QY      1 LKRFNRKIKEKLKKIGQKI 19
        |||  ||| ||||| |||
Db      7 LKRGGEKIGEKLKKGQKI 25
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```

RESULT 9
US-10-478-771A-4
: Sequence 4, Application US/10478771A
: Publication No. US20040248831A1
: GENERAL INFORMATION:
: APPLICANT: LINGNAU, KAREN
: APPLICANT: SCHELLACK
: APPLICANT: SMIT, WALTER
: TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEIC MOL
: FILE REFERENCE: SONN.042US
: CURRENT APPLICATION NUMBER: US/10/478, 771A
: CURRENT FILING DATE: 2003-11-21
: PRIOR APPLICATION NUMBER: PCT/EP02/05448
: PRIOR FILING DATE: 2002-05-17
: PRIOR APPLICATION NUMBER: A805/2001
: PRIOR FILING DATE: 2001-05-21
: NUMBER OF SEQ. ID NOS: 19
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 4
:
: LENGTH: 36
:
: TYPE: PRT
:
: ORGANISM: Mus musculus
: US-10-478-771A-4

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Query Match	68.8%	Score 64;	DB 5;	Length 36;
Best Local Similarity	78.9%	Pred. No. 0.11,		
Matches	15;	Conservative	0;	Mismatches 4;
				Indels 0;

QY 1 L R K F R N K I K E K L K K I G Q T 19
 ||| | | | | | | | |
Dd 6 L R K G E K I G E K L K K I G Q T 24

```

RESULT 10
US-10-470-048B-599
; Sequence 599, Application US/10470048B
; Publication No. US2005003744A1
; GENERAL INFORMATION:
; APPLICANT: MEINKE ET AL.
; TITLE OF INVENTION: A METHOD FOR IDENTIFICATION, ISOLATION ,
; TITLE OF INVENTION: ANTIGENS TO A SPECIFIC PATHOGEN
; FILE REFERENCE: SONN-035US
; CURRENT APPLICATION NUMBER: US/10/470,048B
; CURRENT FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 599
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; US-10-470-048B-599

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Query Match	68.8%;	Score 64;	DB 5;	Length 36;
Best Local Similarity	78.9%;	Pred. No. 0.11;		
Matches	15;	Conservative	0;	Mismatches 4;
				Indels 0;

Qy 1 L R K F R N K I K E K L K K I G O K I 19
||| ||| ||| ||| ||| ||| ||| ||| |||

Db 6 LRKGEKIGKTLKKIGQKI 24

RESULT 11

US-10-060-102-1
; Sequence 1, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-060-102-1

Query Match 68.8%; Score 64; DB 4; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.12;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 LRKFRNKIKKTLKKIGQKI 19
||| |||||
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 12

US-10-721-839-1
; Sequence 1, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-839-1

Query Match 68.8%; Score 64; DB 4; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.12;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 LRKFRNKIKKTLKKIGQKI 19
||| |||||
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 13

US-10-721-829-1
; Sequence 1, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-829-1

Query Match 68.8%; Score 64; DB 5; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.12;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

OY 1 LRKFRNKIKKTLKKIGQKI 19
||| |||||
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 14

US-10-344-709C-5
; Sequence 5, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-344-709C-5

Query Match 68.8%; Score 64; DB 4; Length 173;
Best Local Similarity 78.9%; Pred. No. 0.54;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

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Qy      1 LRFKFNKIKELKKIGQKI 19
         ||| || ||||| |||
Db      142 LKRGGEKIGELKKIGQKI 160

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RESULT 15

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US-10-269-171A-2
: Sequence 2, Application US/10269171A
: Publication No. US20030095979A1
:
: GENERAL INFORMATION:
:   APPLICANT: Frank Mattner
:   APPLICANT: Wolfgang Zauner
:   APPLICANT: Walter Schmidt
:   APPLICANT: Michael Buschle
:   TITLE OF INVENTION: Pharmaceutical preparations comprising modified
:   TITLE OF INVENTION: peptides
:   FILE REFERENCE: SONN:020US
:   CURRENT APPLICATION NUMBER: US/10/269,171A
:   CURRENT FILING DATE: 2002-10-11
:   PRIOR APPLICATION NUMBER: PCT/EP01/04313
:   PRIOR FILING DATE: 2001-04-17
:   NUMBER OF SEQ ID NOS: 11
:   SOFTWARE: PatentIn Ver. 2.1
:   SEQ ID NO 2
:   LENGTH: 36
:   TYPE: PRT
:   ORGANISM: Artificial Sequence
:   FEATURES:
:     OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
:     NAME/KEY: MOD RES
:     LOCATION: (122)
:     OTHER INFORMATION: Xaa = anything
:
US-10-269-171A-2

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Query Match	62.4%	Score 58	DB 4	Length 36
Best Local Similarity	73.7%	Pred. No.	0.72	
Matches 14, Conservative	0	Mismatches	5	Indels 0, Gaps 0

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Qy      1 LRFPRNKIKEKLKKIGQKI 19
        ||| ||||| |||
Db      6 LRGGEKIGEKLLKKIGXKI 24
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Job time : 72.8629 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 21.2492 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-22
Perfect score: 93
Sequence: 1 LKFRNKIKETLKKIGOKI 19

Scoring table:
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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	93	100.0	171	1	US-08-313-681A-4
2	93	100.0	171	2	US-09-322-911-4
3	87	93.5	29	1	US-08-313-681A-7
4	87	93.5	29	2	US-09-322-911-7
5	64	68.8	33	4	PCT-US95-12080-4
6	55	59.1	16	1	US-08-313-681A-11
7	55	59.1	16	2	US-09-322-911-11
8	55	59.1	326	2	US-09-735-846-25
9	55	59.1	326	2	US-10-233-926-25
10	52	55.9	329	2	US-09-735-846-24
11	52	55.9	329	2	US-10-233-926-24
12	52	55.9	331	2	US-09-735-846-23
13	52	55.9	331	2	US-10-233-926-23
14	49	52.7	3421	2	US-09-452-638-53
15	49	52.7	3421	2	US-09-121-587A-13
16	48	51.6	23	2	US-09-820-053A-55
17	48	51.6	338	2	US-10-155-435-6
18	47	50.5	18	2	US-09-525-269A-10
19	47	50.5	190	1	US-08-393-985-25
20	47	50.5	194	2	US-09-735-846-6
21	47	50.5	194	2	US-10-233-926-6
22	47	50.5	259	2	US-09-509-738C-25
23	47	50.5	263	1	US-08-393-985-23
24	47	50.5	285	1	US-08-393-985-2
25	47	50.5	288	1	US-08-337-602-4
26	47	50.5	288	2	US-08-558-135-4
27	47	50.5	288	2	US-08-819-286-3

28	47	50.5	306	2	US-09-134-001C-4678	Seq	Ap
29	47	50.5	363	2	US-09-735-846-20	Seq	p1
30	47	50.5	363	2	US-10-233-926-20	Seq	p1
31	46	49.5	27	1	US-08-231-730A-15	Seq	p1
32	46	49.5	27	1	US-08-427-001C-15	Seq	p1
33	46	49.5	27	1	US-08-457-798-15	Seq	p1
34	46	49.5	27	1	US-08-457-171-15	Seq	p1
35	46	49.5	27	1	US-08-505-486-15	Seq	p1
36	46	49.5	27	1	US-08-505-486-62	Seq	p1
37	46	49.5	27	2	US-08-689-489C-15	Seq	p1
38	46	49.5	27	2	US-08-801-028-15	Seq	p1
39	46	49.5	27	2	US-08-801-028-62	Seq	p1
40	46	49.5	27	2	US-09-340-154-15	Seq	p1
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43	46	49.5	27	2	US-09-482-611B-15	Seq	p1
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45	46	49.5	27	2	US-09-019-922A-15	Seq	p1

ALIGNMENTS

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RESULT 1
US-08-313-681A-4
; Sequence 4, Application US/08313681A
; Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Michimasa
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Healin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-313-681A-4

Query Match 100.0%; Score 93; DB 1; Length 171
Best Local Similarity 100.0%; Pred. No. 2.7e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0;
Oy 1 LKFRNKIKETLKKIGOKI 19
Db 140 LKFRNKIKETLKKIGOKI 158

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RESULT 2
US-09-322-911-4
Sequence 4, Application US/09322911
Patent No. 610388
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishiama
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-Coagulant Activity
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fitch, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-322-911-4
Query Match 100.0%; Score 93; DB 2; Length 171;
Best Local Similarity 100.0%; Pred. No. 2.7e-05;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Patent No. 5618675
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishiama
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
Lipopolysaccharide Binding and Anti-C
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend, Khouir and Crew
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note= "Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
US-08-313-681A-7
Query Match 93.5%; Score 87; DB 1; Length 29;
Best Local Similarity 94.7%; Pred. No. 3.2e-05;
Matches 18; Conservative 0; Mismatches 1; Indels 0;

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew LLP
;; STREET: Two Embarcadero Center, 8th floor
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94111-3834
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/322,911
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/691,280
;; FILING DATE: August 1, 1996
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/916,761
;; FILING DATE: July 17, 1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/916,765
;; FILING DATE: July 17, 1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US93/06731
;; FILING DATE: July 15, 1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/313,681
;; FILING DATE: September 27, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Fites, Renee A.
;; REGISTRATION NUMBER: 35,136
;; REFERENCE/DOCKET NUMBER: 15325-000920
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-326-2400
;; TELEFAX: 415-326-2422
;; INFORMATION FOR SEQ ID NO: 7:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 29 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FEATURE:
;; NAME/KEY: Region
;; LOCATION: 23
;; OTHER INFORMATION: /note= "Xaa is Asp or Lys"
;; FEATURE:
;; NAME/KEY: Region
;; LOCATION: 26
;; OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
;; FEATURE:
;; NAME/KEY: Region
;; LOCATION: 27
;; OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
;; US-09-322-911-7
;;
Query Match 93.5%; Score 87; DB 2; Length 29;
Best Local Similarity 94.7%; Pred. No. 3.2e-05;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 LRKFRNKIKKKIKGQKI 19
Db 6 LRKFRNKIKKKIKGQKI 24

RESULT 5
PCT-US95-12080-4
; Sequence 4, Application PC/TUS9512080
; GENERAL INFORMATION:
; APPLICANT: Children's Medical Center Corporaton

;; TITLE OF INVENTION: Synducin Mediated Modulation of Tissue
;; NUMBER OF SEQUENCES: 4
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Patrea L. Pabst
;; STREET: 2800 One Atlantic Center
;; STREET: 1201 West Peachtree
;; CITY: Atlanta
;; STATE: Georgia
;; COUNTRY: USA
;; ZIP: 30309-3450
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/12080
;; FILING DATE:
;; CLASSIFICATION:
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (404)-873-8794
;; TELEFAX: (404)-815-8795
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 33 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; PCT-US95-12080-4
;;
Query Match 68.8%; Score 64; DB 4; Length 33;
Best Local Similarity 78.9%; Pred. No. 0.042;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

Oy 1 LRKFRNKIKKKIKGQKI 19
Db 3 LRKGEKIKKKIKGQKI 21

RESULT 6
US-08-313-681A-11
; Sequence 11, Application US/08313681A
; Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-ivily
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2422
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-313-681A-11

Query Match 59.1%; Score 55; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LKFRNKIKKK 11
Db 6 LKFRNKIKKK 16

RESULT 7
US-09-322-911-11
Sequence 11, Application US/09322911
Patent No. 6103888
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Baling, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-Coagulant Activity
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Pitts, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-09-322-911-11

Query Match 59.1%; Score 55; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 11; Conservative 0; Mismatches 0; Indels 0;

QY 1 LKFRNKIKKK 11
Db 6 LKFRNKIKKK 16

RESULT 8
US-09-735-846-25
Sequence 25, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-09-735-846-25

Query Match 59.1%; Score 55; DB 2; Length 326;
Best Local Similarity 47.4%; Pred. No. 5.8;
Matches 9; Conservative 7; Mismatches 3; Indels 0;

QY 1 LKFRNKIKKKLKKIGOKI 19
Db 199 LKFKQEKVKQOEKVGSKI 217

RESULT 9
US-10-233-926-25
Sequence 25, Application US/10233926
Patent No. 690369
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
APPLICANT: Falco, S. Carl
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLTRANSFERASE
FILE REFERENCE: B81419 US NA
CURRENT APPLICATION NUMBER: US/10/233,926
CURRENT FILING DATE: 2002-09-03
PRIOR APPLICATION NUMBER: US/09/735,846
PRIOR FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-10-233-926-25

Query Match 59.1%; Score 55; DB 2; Length 326;
Best Local Similarity 47.4%; Pred. No. 5.8;
Matches 9; Conservative 7; Mismatches 3; Indels 0;

QY 1 LKFRNKIKKKLKKIGOKI 19
Db 199 LKFKQEKVKQOEKVGSKI 217

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RESULT 10
US-09-735-846-24
; Sequence 24, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-735-846-24

Query Match      55.9%; Score 52; DB 2; Length 329;
Best Local Similarity 42.1%; Pred. No. 15;
Matches      8; Conservative      8; Mismatches      3; Indels      0; Gaps      0;

Qy      1 LRKFRNKIKKELKKIGOKI 19
      |||: : :|||: : :|||:
Db      206 LKKLQERVKEQEKVGKGI 224

RESULT 11
US-10-233-926-24
; Sequence 24, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-24

Query Match      55.9%; Score 52; DB 2; Length 329;
Best Local Similarity 42.1%; Pred. No. 15;
Matches      8; Conservative      8; Mismatches      3; Indels      0; Gaps      0;

Qy      1 LRKFRNKIKKELKKIGOKI 19
      |||: : :|||: : :|||:
Db      206 LKKLQERVKEQEKVGKGI 224

RESULT 12
US-09-735-846-23
; Sequence 23, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
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; CURRENT APPLICATION NUMBER: US/09/735,846
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-735-846-23

Query Match      55.9%; Score 52; DB 2; Length 331;
Best Local Similarity 42.1%; Pred. No. 15;
Matches      8; Conservative      8; Mismatches      3; Indels      0;

Qy      1 LRKFRNKIKKELKKIGOKI 19
      |||: : :|||: : :|||:
Db      206 LKKLQERVKEQEKVGKGI 224

RESULT 13
US-10-233-926-23
; Sequence 23, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; CURRENT FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-233-926-23

Query Match      55.9%; Score 52; DB 2; Length 331;
Best Local Similarity 42.1%; Pred. No. 15;
Matches      8; Conservative      8; Mismatches      3; Indels      0;

Qy      1 LRKFRNKIKKELKKIGOKI 19
      |||: : :|||: : :|||:
Db      206 LKKLQERVKEQEKVGKGI 224

RESULT 14
US-09-452-638-53
; Sequence 53, Application US/09452638
; Patent No. 6696281
; GENERAL INFORMATION:
; APPLICANT: Chambers, Thomas J.
; APPLICANT: Monath, Thomas P.
; APPLICANT: Guirakhoo, Farshad
; TITLE OF INVENTION: Chimeric Flavivirus Vaccines
; FILE REFERENCE: 06132/033004
; CURRENT APPLICATION NUMBER: US/09/452,638
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: US 09/121,587
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: PCT/US98/03894
; PRIOR FILING DATE: 1998-03-02
; PRIOR APPLICATION NUMBER: US 09/007,664
; PRIOR FILING DATE: 1998-01-15
; PRIOR APPLICATION NUMBER: US 08/807,445
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 85
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OM protein - protein search, using sw model

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Title: US-09-642-744E-21

Perfect score: 108

Sequence: 1 RKRRLKFRNKIKKKIKGOKI 22

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Database : Published Applications AA New:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	45.4	188	US-10-821-234-1393	Sequence 1393, App
2	49	45.4	188	US-10-528-031-4	Sequence 4, Appl
3	48	44.4	338	US-11-152-892-6	Sequence 6, Appl
4	43	39.8	488	US-10-485-517-307	Sequence 307, App
5	43	39.8	817	US-10-793-626-1528	Sequence 50, Appl
6	43	39.8	817	US-10-793-626-1528	Sequence 1528, App
7	42.5	39.4	932	US-11-017-550-65	Sequence 65, Appl
8	42	38.9	537	US-10-821-234-1427	Sequence 1427, App
9	42	38.9	741	US-10-793-626-1178	Sequence 1178, App
10	41	38.0	183	US-10-793-626-2828	Sequence 2828, App
11	41	38.0	1404	US-10-878-556A-169	Sequence 169, App
12	40	37.0	423	US-11-167-856-8	Sequence 8, Appl
13	40	37.0	591	US-10-510-386-22	Sequence 22, Appl
14	40	37.0	650	US-10-467-657-1948	Sequence 1948, App
15	39	36.1	210	US-11-196-475-30	Sequence 30, Appl
16	39	36.1	212	US-10-793-626-800	Sequence 800, App
17	39	36.1	293	US-10-793-626-2646	Sequence 2646, App
18	39	36.1	342	US-11-196-475-170	Sequence 170, App
19	39	36.1	342	US-11-196-475-172	Sequence 172, App
20	39	36.1	342	US-11-196-475-174	Sequence 174, App
21	39	36.1	344	US-11-196-475-176	Sequence 176, App
22	39	36.1	440	US-11-196-475-178	Sequence 178, App
23	39	36.1	450	US-11-196-475-148	Sequence 148, App
24	39	36.1	453	US-11-196-475-146	Sequence 146, App
25	39	36.1	453	US-11-196-475-152	Sequence 152, App

26	39	36.1	453	7	US-11-196-475-156	Seq
27	39	36.1	454	7	US-11-196-475-160	Seq
28	39	36.1	588	7	US-11-196-475-122	Seq
29	39	36.1	603	6	US-10-770-726-75	Seq
30	38.5	35.6	43	6	US-10-957-887B-29	Seq
31	38	35.2	37	6	US-10-985-426-9	Seq
32	38	35.2	44	6	US-10-632-349-8	Seq
33	38	35.2	198	6	US-10-878-556A-6	Seq
34	38	35.2	199	6	US-10-467-657-2328	Seq
35	38	35.2	224	6	US-10-821-234-1407	Seq
36	38	35.2	228	6	US-10-821-234-1407	Seq
37	38	35.2	366	6	US-10-821-234-1447	Seq
38	38	35.2	770	7	US-11-070-627-5	Seq
39	38	35.2	2432	6	US-10-821-234-899	Seq
40	37.5	34.7	248	6	US-10-821-234-1620	Seq
41	37.5	34.7	514	6	US-10-821-234-998	Seq
42	37.5	34.7	659	6	US-10-995-561-573	Seq
43	37.5	34.7	701	6	US-10-995-561-575	Seq
44	37.5	34.7	751	6	US-10-995-561-578	Seq
45	37.5	34.7	808	6	US-10-995-561-574	Seq

ALIGNMENTS

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RESULT 1
US-10-821-234-1393
; Sequence 1393, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Steche-Crain, Birgit
; APPLICANT: Andarmani, Susan
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of I
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pf_seq_genes Version 1.0
; SEQ ID NO 1393
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1393

Query Match      45.4% Score 49; DB 6; Length 188;
Best Local Similarity 47.4%; Pred. No. 3.5;
Matches 9; Conservative 5; Mismatches 5; Indels 0;

QY      3 RLRKFRNKIKKKIKGOK 21
DB      140 RLRKFRNKIKKKIKGOK 158

RESULT 2
US-10-528-031-4
; Sequence 4, Application US/10528031
; Publication No. US20050262577A1
; GENERAL INFORMATION:
; APPLICANT: ORIDIS BIOMED Forschungs- und Entwicklungs GmbH
; APPLICANT: Guelly, Christian
; APPLICANT: Buck, Charles R.
; APPLICANT: Zatloukal, Kurt
; TITLE OF INVENTION: Polypeptides and nucleic acids encoding
; FILE REFERENCE: Prevention, diagnosis or treatment of
; CURRENT APPLICATION NUMBER: US/10/528,031
; CURRENT FILING DATE: 2005-03-16
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.1
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SEQ ID NO 4
LENGTH: 188
TYPE: PRT
ORGANISM: Homo sapiens
US-10-528-031-4

Query Match 45.4%; Score 49; DB 6; Length 188;
Best Local Similarity 47.4%; Pred. No. 3.5;
Matches 9; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

Qy 3 RLKFRKIKKIKKIKGOKI 21
Db 140 RLKRLKKNLKNKMEIGIGLK 158

RESULT 3
US-11-152-892-6
Sequence 6, Application US/11152892
Publication No. US20050251883A1
GENERAL INFORMATION:
APPLICANT: Amasino, Richard M.
APPLICANT: Schomburg, Fritz M.
APPLICANT: Michaels, Scott D.
APPLICANT: Bizzell, Colleen M.
TITLE OF INVENTION: Dwarfism Genes and Dwarf Plants
FILE REFERENCE: 960296.97605
CURRENT APPLICATION NUMBER: US/11/152,892
CURRENT FILING DATE: 2005-06-15
PRIOR APPLICATION NUMBER: US/10/155,435
PRIOR FILING DATE: 2002-05-23
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 338
TYPE: PRT
ORGANISM: Arabidopsis
US-11-152-892-6

Query Match 44.4%; Score 48; DB 7; Length 338;
Best Local Similarity 44.4%; Pred. No. 8.8;
Matches 8; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

Qy 5 RFRNKIKKIKKIKGOKI 22
Db 311 RFRQGVQGVQKKGFKV 328

RESULT 4
US-10-485-517-307
Sequence 307, Application US/10485517
Publication No. US20050256299A1
GENERAL INFORMATION:
APPLICANT: University of Sheffield
APPLICANT: Biogenex Incorporated
APPLICANT: Foster, Simon
APPLICANT: Mond, James
TITLE OF INVENTION: Antigenic Polypeptides
FILE REFERENCE: P100629WO
CURRENT APPLICATION NUMBER: US/10/485,517
CURRENT FILING DATE: 2004-02-02
PRIOR APPLICATION NUMBER: GB 0118825.9
PRIOR FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: GB 0200349.9
PRIOR FILING DATE: 2002-01-09
NUMBER OF SEQ ID NOS: 424
SOFTWARE: PatentIn version 3.1
SEQ ID NO 307
LENGTH: 488
TYPE: PRT
ORGANISM: Staphylococcus aureus
US-10-485-517-307

Query Match 39.8%; Score 43; DB 6; Length 488;

Best Local Similarity 41.2%; Pred. No. 58;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

Qy 6 KFRNKIKKIKKIKGOKI 22
Db 73 KYRGFFERLKKVMEI 89

RESULT 5
US-10-793-626-50
Sequence 50, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
FILE REFERENCE: P03480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 50
LENGTH: 817
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synt
US-10-793-626-50

Query Match 39.8%; Score 43; DB 6; Length 817;
Best Local Similarity 41.2%; Pred. No. 99;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

Qy 6 KFRNKIKKIKKIKGOKI 22
Db 252 KYRGFFERLKKVMEI 268

RESULT 6
US-10-793-626-1528
Sequence 1528, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
FILE REFERENCE: P03480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1528
LENGTH: 817
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synt
OTHER INFORMATION: amino acid sequence
US-10-793-626-1528

Query Match 39.8%; Score 43; DB 6; Length 817;
Best Local Similarity 41.2%; Pred. No. 99;
Matches 7; Conservative 7; Mismatches 3; Indels 0;

Qy 6 KFRNKIKKIKKIKGOKI 22
Db 252 KYRGFFERLKKVMEI 268

RESULT 7

US-11-017-550-65
; Sequence 65, Application US/11017550
; Publication No. US20050250183A1
; GENERAL INFORMATION:
; APPLICANT: The Scripps Research Institute
; APPLICANT: Schultz, Peter G
; APPLICANT: Wang, Lei
; APPLICANT: Anderson, John C
; APPLICANT: Chin, Jason
; APPLICANT: Liu, David R
; APPLICANT: Magliery, Thomas
; APPLICANT: Meggers, Eric L
; APPLICANT: Mehl, Ryan A
; APPLICANT: Pasternak, Mirol
; APPLICANT: Santoro, Stephen W
; APPLICANT: Zhang, Zhwen
; TITLE OF INVENTION: In Vivo Incorporation of Unnatural Amino Acids
; FILE REFERENCE: 54-000120US
; CURRENT APPLICATION NUMBER: US/11/017,550
; CURRENT FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: US/10/126,927
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,030
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 60/355,514
; PRIOR FILING DATE: 2002-02-06
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65
; LENGTH: 932
; TYPE: PRT
; ORGANISM: Archaeoglobus fulgidus
US-11-017-550-65

Query Match 39.4%; Score 42.5; DB 6; Length 932;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 9; Conservative 5; Mismatches 3; Indels 1; Gaps 1;

OY 4 LRKFRNKIKER-LKTIQ 20
DB 681 LRPFYLVKENVLKEVGE 698

RESULT 8
US-10-821-234-1427
; Sequence 1427, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 1427
; LENGTH: 537
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1427

Query Match 38.9%; Score 42; DB 6; Length 537;
Best Local Similarity 33.3%; Pred. No. 86;
Matches 7; Conservative 8; Mismatches 6; Indels 0; Gaps 0;

OY 1 RKRLKFRNKIKERLKKTIQ 21
DB 10 OKVLENNHKKLKKKAKKGGHK 30

RESULT 9
US-10-793-626-1178
; Sequence 1178, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACID
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1178
; LENGTH: 741
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synt
US-10-793-626-1178

Query Match 38.9%; Score 42; DB 6; Length 741;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 8; Conservative 4; Mismatches 4; Indels 0;

OY 7 FRNKIKERLKKTIQ 22
DB 128 FKVSKDKFKKVTET 143

RESULT 10
US-10-793-626-2828
; Sequence 2828, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACID
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2828
; LENGTH: 183
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synt
US-10-793-626-2828

Query Match 38.0%; Score 41; DB 6; Length 183;
Best Local Similarity 57.1%; Pred. No. 37;
Matches 8; Conservative 3; Mismatches 3; Indels 0;

OY 8 RNKIKERLKKTIQ 21
DB 38 RDAERLKKLGGAK 51

RESULT 11
US-10-878-556A-169
; Sequence 169, Application US/10878556A
; Publication No. US20050266399A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann La-Roche Inc.
; TITLE OF INVENTION: HCV regulated protein expression

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; FILE REFERENCE: 21762
; CURRENT APPLICATION NUMBER: US/10/878,556A
; CURRENT FILING DATE: 2004-06-28
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 1404
; TYPE: PRT
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: humangp/chr12-q14221
; DATABASE ENTRY DATE: 2003-04-22
; US-10-878-556A-169

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Query Match          38.0%; Score 41; DB 6; Length 1404;
Best Local Similarity 36.8%; Pred. No. 3.2e+02;
Matches 7; Conservative 8; Mismatches 4; Indels 0; Gaps 0;

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QY      3 RLKRNKIKKKIKQK 21
Db      496 KLRKQNDLEQVLRQIGDK 514

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```

RESULT 12
US-11-167-856-8
; Sequence 8, Application US/11167856
; Publication No. US20050268352A1
; GENERAL INFORMATION:
; APPLICANT: Nikolau, Basil J
; APPLICANT: Murtele, Eve S
; APPLICANT: Oliver, David J
; APPLICANT: Behal, Robert
; APPLICANT: Schnable, Patrick S
; APPLICANT: Ke, Jinhuan
; APPLICANT: Johnson, Jerry L
; APPLICANT: Allred, Carolyn C
; APPLICANT: Facland, Beth
; APPLICANT: Lutziger, Isabelle
; APPLICANT: Wen, Tsui-Jung
; TITLE OF INVENTION: Materials and Methods for the Alteration of Enzyme and
; TITLE OF INVENTION: Acetyl CoA Levels in Plants
; FILE REFERENCE: P2194USDIV-2
; CURRENT APPLICATION NUMBER: US/11/167,856
; PRIOR FILING DATE: 2005-06-27
; PRIOR APPLICATION NUMBER: US 10/293,865
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/344,882
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/090,717
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 8
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Arabidopsis Thaliana
; US-11-167-856-8

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Query Match          37.0%; Score 40; DB 7; Length 423;
Best Local Similarity 34.8%; Pred. No. 1.2e+02;
Matches 8; Conservative 8; Mismatches 5; Indels 2; Gaps 1;

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```

QY      1 RKRLKRPNK--IKKKKKIKQK 21
Db      3 RKKIRBYDSKRLVKEHFRLSGK 25

```

```

RESULT 13
US-10-510-386-22
; Sequence 22, Application US/10510386
; Publication No. US20050244922A1
; GENERAL INFORMATION:
; APPLICANT: Andersen, Jens Tonne

```

```

; APPLICANT: Clausen, Ib Groth
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Olsen, Peter Bjarke
; APPLICANT: Rasmussen, Michael Dolberg
; TITLE OF INVENTION: Improved Bacillus Host Cell
; FILE REFERENCE: 10294.204-US
; CURRENT APPLICATION NUMBER: US/10/510,386
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
; US-10-510-386-22

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Query Match          37.0%; Score 40; DB 6; Length 591;
Best Local Similarity 47.1%; Pred. No. 1.7e+02;
Matches 8; Conservative 4; Mismatches 5; Indels 0;

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QY      4 LRKRNKIKKKIKQK 20
Db      424 LKRLNTVKEQLKKTAE 440

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RESULT 14
US-10-467-657-1948
; Sequence 1948, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIAGNI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWing9, version 1.04
; SEQ ID NO 1948
; LENGTH: 650
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
; US-10-467-657-1948

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Query Match          37.0%; Score 40; DB 6; Length 650;
Best Local Similarity 46.2%; Pred. No. 1.9e+02;
Matches 6; Conservative 4; Mismatches 3; Indels 0;

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QY      2 KRLKRNKIKKK 14
Db      80 REMKSPREKVKKK 92

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RESULT 15
US-11-196-475-30
; Sequence 30, Application US/11196475
; Publication No. US20050271682A1
; GENERAL INFORMATION:
; APPLICANT: Dattwyler, Raymond J.
; APPLICANT: Gomes Siolecki, Maria J. C.
; APPLICANT: Luft, Benjamin J.
; APPLICANT: Dunn, John J.
; TITLE OF INVENTION: Recombinant Constructs of Borrelia
; TITLE OF INVENTION: Burgdorfert
; FILE REFERENCE: 2631.1001-011
; CURRENT APPLICATION NUMBER: US/11/196,475
; CURRENT FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 08/148,191

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; PRIOR FILING DATE: 1993-11-01
 ; PRIOR APPLICATION NUMBER: US 08/235,836
 ; PRIOR FILING DATE: 1994-04-29
 ; PRIOR APPLICATION NUMBER: US 09/666,017
 ; PRIOR FILING DATE: 2000-09-19
 ; PRIOR APPLICATION NUMBER: US 60/226,484
 ; PRIOR FILING DATE: 2000-08-18
 ; PRIOR APPLICATION NUMBER: PCT/US01/24736
 ; PRIOR FILING DATE: 2001-08-07
 ; NUMBER OF SEQ ID NOS: 213
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 30
 ; LENGTH: 210
 ; TYPE: PRT
 ; ORGANISM: Borrelia burgdorferi
 ; US-11-196-475-30

Query March 36.1%; Score 39; DB 7; Length 210;
 Best Local Similarity 38.1%; Pred. No. 78;
 Matches 8; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY 1 RKRLKFRNKIKKKIGOK 21
 Db 128 KKCEFTFNKIKKHDTDLGKE 148

Search completed: December 16, 2005, 03:10:10
 Job time : 4.41089 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 84.3676 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-21
Perfect score: 108
Sequence: 1 RKRLKFRNKIKKKIKGOKI 22

Scoring table:
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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	32	US-10-131-433-1	Sequence 1, Appli
2	108	100.0	37	US-10-060-102-5	Sequence 5, Appli
3	108	100.0	37	US-10-721-839-5	Sequence 5, Appli
4	108	100.0	37	US-10-344-709C-15	Sequence 15, Appli
5	108	100.0	37	US-10-721-829-5	Sequence 5, Appli
6	108	100.0	171	US-10-344-709C-7	Sequence 7, Appli
7	64	59.3	31	US-10-399-442A-2	Sequence 2, Appli
8	64	59.3	32	US-10-344-709C-1	Sequence 1, Appli
9	64	59.3	36	US-10-478-771A-4	Sequence 4, Appli
10	64	59.3	36	US-10-470-048B-599	Sequence 599, App
11	64	59.3	39	US-10-060-102-1	Sequence 1, Appli
12	64	59.3	39	US-10-721-839-1	Sequence 1, Appli
13	64	59.3	39	US-10-721-829-1	Sequence 1, Appli
14	64	59.3	173	US-10-344-709C-5	Sequence 5, Appli
15	60	55.6	324	US-10-389-566-1171	Sequence 1171, Ap
16	60	55.6	326	US-10-233-926-25	Sequence 25, Appli
17	60	55.6	326	US-10-389-566-1172	Sequence 1172, Ap
18	58	53.7	36	US-10-269-171A-2	Sequence 2, Appli
19	57	52.8	329	US-10-233-926-24	Sequence 24, Appli
20	57	52.8	329	US-10-389-566-1173	Sequence 1173, Ap
21	57	52.8	331	US-10-233-926-23	Sequence 23, Appli
22	57	52.8	331	US-10-389-566-1174	Sequence 1174, Ap
23	56	51.9	51	US-10-424-599-264915	Sequence 264915,
24	54	50.0	39	US-10-060-102-2	Sequence 2, Appli
25	54	50.0	39	US-10-721-839-2	Sequence 2, Appli
26	54	50.0	39	US-10-721-829-2	Sequence 2, Appli
27	54	50.0	194	US-10-233-926-6	Sequence 6, Appli

28	54	50.0	318	4	US-10-389-566-673	Seq
29	54	50.0	318	4	US-10-389-566-674	Seq
30	54	50.0	332	4	US-10-389-566-1816	Seq
31	54	50.0	363	4	US-10-233-926-20	Seq
32	54	50.0	3421	5	US-10-701-122-53	Seq
33	53	49.1	65	4	US-10-425-115-569884	Seq
34	53	49.1	155	4	US-10-336-603A-34	Seq
35	53	49.1	178	4	US-10-015-179-2	Seq
36	53	49.1	178	4	US-10-188-840-2	Seq
37	53	49.1	178	4	US-10-336-603A-32	Seq
38	52	48.1	641	4	US-10-437-963A-181519	Seq
39	52	48.1	1111	4	US-10-282-122A-58098	Seq
40	52	48.1	1112	4	US-10-398-186-22	Seq
41	51	47.2	23	3	US-09-820-053A-55	Seq
42	51	47.2	23	4	US-10-109-171-55	Seq
43	51	47.2	23	5	US-10-839-525-55	Seq
44	51	47.2	23	6	US-11-136-186-55	Seq
45	51	47.2	35	4	US-10-205-150-1	Seq

ALIGNMENTS

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RESULT 1
US-10-131-433-1
; Sequence 1, Application US/10131433
; Publication No. US20030054422A1
; GENERAL INFORMATION:
; APPLICANT: UNILEVER, PLC
; TITLE OF INVENTION: Lipopolyasaccharide Immunoassay and Test
; FILE REFERENCE: Lipopolyasaccharide Immunoassay
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US/10/131,433
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Lاپine
US-10-131-433-1

Query Match      100.0%; Score 108, DB 4; Length 3;
Best Local Similarity 100.0%; Pred. No. 4.5e-07;
Matches 22; Conservative 0; Mismatches 0; Indels 0;

Cy      1 RKRLKFRNKIKKKIKGOKI 22
Db      3 RKRLKFRNKIKKKIKGOKI 24

RESULT 2
US-10-060-102-5
; Sequence 5, Application US/10060102
; Publication No. US2003002829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; FILE REFERENCE: IOWA-035US
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32

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/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Ovis aries
US-10-060-102-5
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```
Query Match          100.0%; Score 108; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 5.2e-07;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 RKRLRKFRNKIKKKIGOKI 22
         |||
Db       3 RKRLRKFRNKIKKKIGOKI 24
```

```
RESULT 3
US-10-721-839-5
/ Sequence 5, Application US/10721839
/ Publication No. US20040086535A1
/ GENERAL INFORMATION:
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```
/ APPLICANT: MAURY, WENDY
/ APPLICANT: STAPLETON, JACK
/ APPLICANT: ROLLER, RICHARD
/ APPLICANT: STINSKI, MARK
/ APPLICANT: MCCRAY, PAUL B.
/ APPLICANT: TACK, BRIAN
/ TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
/ FILE REFERENCE: IOWA:03505
/ CURRENT APPLICATION NUMBER: US/10/721, 839
/ PRIOR FILING DATE: 2003-11-25
/ PRIOR APPLICATION NUMBER: US/10/060,102
/ PRIOR FILING DATE: 2002-02-22
/ PRIOR APPLICATION NUMBER: 60/309,368
/ PRIOR FILING DATE: 2001-08-01
/ PRIOR APPLICATION NUMBER: 60/265,270
/ PRIOR FILING DATE: 2001-01-30
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Ovis aries
US-10-721-839-5
```

```
Query Match          100.0%; Score 108; DB 4; Length 37;
Best Local Similarity 100.0%; Pred. No. 5.2e-07;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 RKRLRKFRNKIKKKIGOKI 22
         |||
Db       3 RKRLRKFRNKIKKKIGOKI 24
```

```
RESULT 4
US-10-344-709C-15
/ Sequence 15, Application US/10344709C
/ Publication No. US20040170642A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: JORG FRITZ ET AL.
/ TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
/ TITLE OF INVENTION: derived antimicrobial peptide or a derivative thereof
/ FILE REFERENCE: SONN:03005
/ CURRENT APPLICATION NUMBER: US/10/344,709C
/ PRIOR FILING DATE: 2003-02-14
/ PRIOR APPLICATION NUMBER: PCT/EP01/09529
/ PRIOR FILING DATE: 2001-08-17
/ PRIOR APPLICATION NUMBER: A 1416/2000
/ PRIOR FILING DATE: 2000-08-17
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 15
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/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-344-709C-15
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```
Query Match          100.0%; Score 108; DB 4; Length 37
Best Local Similarity 100.0%; Pred. No. 5.2e-07;
Matches 22; Conservative 0; Mismatches 0; Indels 0;
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```
QY      1 RKRLRKFRNKIKKKIGOKI 22
         |||
Db       3 RKRLRKFRNKIKKKIGOKI 24
```

```
RESULT 5
US-10-721-829-5
/ Sequence 5, Application US/10721829
/ Publication No. US2005013776A1
/ GENERAL INFORMATION:
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```
/ APPLICANT: MAURY, WENDY
/ APPLICANT: STAPLETON, JACK
/ APPLICANT: ROLLER, RICHARD
/ APPLICANT: STINSKI, MARK
/ APPLICANT: MCCRAY, PAUL B.
/ APPLICANT: TACK, BRIAN
/ TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
/ FILE REFERENCE: IOWA:03505
/ CURRENT APPLICATION NUMBER: US/10/721, 829
/ PRIOR FILING DATE: 2003-11-25
/ PRIOR APPLICATION NUMBER: US/10/060,102
/ PRIOR FILING DATE: 2002-02-22
/ PRIOR APPLICATION NUMBER: 60/309,368
/ PRIOR FILING DATE: 2001-08-01
/ PRIOR APPLICATION NUMBER: 60/265,270
/ PRIOR FILING DATE: 2001-01-30
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 37
/ TYPE: PRT
/ ORGANISM: Ovis aries
US-10-721-829-5
```

```
Query Match          100.0%; Score 108; DB 5; Length 37
Best Local Similarity 100.0%; Pred. No. 5.2e-07;
Matches 22; Conservative 0; Mismatches 0; Indels 0;
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```
QY      1 RKRLRKFRNKIKKKIGOKI 22
         |||
Db       3 RKRLRKFRNKIKKKIGOKI 24
```

```
RESULT 6
US-10-344-709C-7
/ Sequence 7, Application US/10344709C
/ Publication No. US20040170642A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: JORG FRITZ ET AL.
/ TITLE OF INVENTION: Vaccine which comprises at least one ant
/ TITLE OF INVENTION: derived antimicrobial peptide or a deri
/ FILE REFERENCE: SONN:03005
/ CURRENT APPLICATION NUMBER: US/10/344,709C
/ PRIOR FILING DATE: 2003-02-14
/ PRIOR APPLICATION NUMBER: PCT/EP01/09529
/ PRIOR FILING DATE: 2001-08-17
/ PRIOR APPLICATION NUMBER: A 1416/2000
/ PRIOR FILING DATE: 2000-08-17
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 7
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; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
US-10-344-709C-7

Query Match
Best Local Similarity 100.0%; Score 108; DB 4; Length 171;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRLRRFRNKKIKKKIGOKI 22
DB 137 RRLRRFRNKKIKKKIGOKI 158

RESULT 7
US-10-399-442A-2
; Sequence 2, Application US/10399442A
; Publication No. US20050063978A1
; GENERAL INFORMATION:
; APPLICANT: Jorg Fritz et al.
; TITLE OF INVENTION: Vaccine Composition Comprising an Antigen and a Peptide
; FILE REFERENCE: SONN:031US
; CURRENT APPLICATION NUMBER: US/10/399,442A
; PRIOR FILING DATE: 2003-04-17
; PRIOR APPLICATION NUMBER: PCT/EP01/12041
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: Austrian A 1789/00
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-399-442A-2

Query Match
Best Local Similarity 59.3%; Score 64; DB 5; Length 31;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 4 LRRFRNKKIKKKIGOKI 22
DB 6 LRRGGEKIGKKIKKIGOKI 24

RESULT 8
US-10-344-709C-1
; Sequence 1, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG FRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one antigen and a cathelicidin
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: Sy de
US-10-344-709C-1

Query Match
Best Local Similarity 59.3%; Score 64; DB 4; Length 32;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

QY 4 LRRFRNKKIKKKIGOKI 22
DB 7 LRRGGEKIGKKIKKIGOKI 25

RESULT 9
US-10-478-771A-4
; Sequence 4, Application US/10478771A
; Publication No. US20040248631A1
; GENERAL INFORMATION:
; APPLICANT: LINGNAU, KAREN
; APPLICANT: SCHELLACK
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEIC MOL
; FILE REFERENCE: SONN:042US
; CURRENT APPLICATION NUMBER: US/10/478,771A
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/EP02/05448
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: A805/2001
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-478-771A-4

Query Match
Best Local Similarity 59.3%; Score 64; DB 5; Length 36;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

QY 4 LRRFRNKKIKKKIGOKI 22
DB 6 LRRGGEKIGKKIKKIGOKI 24

RESULT 10
US-10-470-048B-599
; Sequence 599, Application US/10470048B
; Publication No. US20050037444A1
; GENERAL INFORMATION:
; APPLICANT: MEINKE ET AL.
; TITLE OF INVENTION: A METHOD FOR IDENTIFICATION, ISOLATION
; FILE REFERENCE: SONN:035US
; CURRENT APPLICATION NUMBER: US/10/470,048B
; PRIOR FILING DATE: 2003-07-25
; NUMBER OF SEQ ID NOS: 603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 599
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-470-048B-599

Query Match
Best Local Similarity 59.3%; Score 64; DB 5; Length 36;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

QY 4 LRRFRNKKIKKKIGOKI 22
DB 6 LRRGGEKIGKKIKKIGOKI 24
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Db 6 LRKGEKIGKTLKKIGQKI 24

RESULT 11

US-10-060-102-1
; Sequence 1, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-060-102-1

Query Match 59.3%; Score 64; DB 4; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.28;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 4 LRKFRNKIKKTLKKIGQKI 22
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 12

US-10-721-839-1
; Sequence 1, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-839-1

Query Match 59.3%; Score 64; DB 4; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.28;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 4 LRKFRNKIKKTLKKIGQKI 22
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 13

US-10-721-829-1
; Sequence 1, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 39
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-721-829-1

Query Match 59.3%; Score 64; DB 5; Length 39;
Best Local Similarity 78.9%; Pred. No. 0.28;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

OY 4 LRKFRNKIKKTLKKIGQKI 22
Db 8 LRKGEKIGKTLKKIGQKI 26

RESULT 14

US-10-344-709C-5
; Sequence 5, Application US/10344709C
; Publication No. US20040170642A1
; GENERAL INFORMATION:
; APPLICANT: JORG PRITZ ET AL.
; TITLE OF INVENTION: Vaccine which comprises at least one ant
; TITLE OF INVENTION: derived antimicrobial peptide or a deri
; FILE REFERENCE: SONN:030US
; CURRENT APPLICATION NUMBER: US/10/344,709C
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: PCT/EP01/09529
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: A 1416/2000
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-344-709C-5

Query Match 59.3%; Score 64; DB 4; Length 173;
Best Local Similarity 78.9%; Pred. No. 1.3;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

OY 4 LRKFRNKIKKKIKGOKI 22
Db 142 LRKGEKIGKKIKGOKI 160

RESULT 15
US-10-389-566-1171
; Sequence 1171, Application US/10389566
; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; APPLICANT: Laurie, Cathy C
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
; FILE REFERENCE: 38-77(52900)D
; CURRENT APPLICATION NUMBER: US/10/389,566
; PRIOR FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US 60/365,301
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/391,786
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/392,018
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 2459
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1171
; LENGTH: 324
; TYPE: PR1
; ORGANISM: Brassica napus
US-10-389-566-1171

Query Match 55.6%; Score 60; DB 4; Length 324;
Best Local Similarity 50.0%; Pred. No. 7.9;
Matches 10; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
OY 3 LRKFRNKIKKKIKGOKI 22
Db 196 LRKLEKVKKEQKVKGOKI 215

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OM protein - protein search, using sw model

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Title: US-09-642-744E-21
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Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	108	100.0	171	1	US-08-313-681A-4
2	108	100.0	171	2	US-09-322-911-4
3	102	94.4	29	1	US-08-313-681A-7
4	102	94.4	29	2	US-09-322-911-7
5	70	64.8	16	1	US-08-313-681A-11
6	70	64.8	16	2	US-09-322-911-11
7	64	59.3	33	4	PCT-US95-12080-4
8	60	55.6	326	2	US-09-735-846-25
9	60	55.6	326	2	US-10-233-928-25
10	57	52.8	329	2	US-09-735-846-24
11	57	52.8	329	2	US-10-233-928-24
12	57	52.8	331	2	US-09-735-846-23
13	57	52.8	331	2	US-10-233-928-23
14	54	50.0	194	2	US-09-735-846-6
15	54	50.0	194	2	US-10-233-928-6
16	54	50.0	363	2	US-09-735-846-20
17	54	50.0	363	2	US-10-233-928-20
18	54	50.0	3421	2	US-09-452-638-53
19	54	50.0	3421	2	US-09-121-587A-13
20	53	49.1	37	1	US-08-313-681A-6
21	53	49.1	37	2	US-09-322-911-6
22	51	47.2	23	2	US-09-820-053A-55
23	50	46.3	258	2	US-09-828-447-13
24	50	46.3	486	2	US-09-248-796A-18727
25	49	45.4	18	2	US-09-525-269A-10
26	49	45.4	123	2	US-09-148-545-187
27	49	45.4	123	2	US-09-148-545-243

28	49	45.4	123	2	US-09-621-011-187	Seq
29	49	45.4	123	2	US-09-621-011-243	Seq
30	49	45.4	188	2	US-09-695-795A-6	Seq
31	49	45.4	452	2	US-09-889-738-21	Seq
32	48	44.4	223	2	US-09-344-624-12	Seq
33	48	44.4	269	2	US-09-744-989C-3	Seq
34	48	44.4	287	2	US-09-744-989C-1	Seq
35	48	44.4	287	2	US-09-744-989C-5	Seq
36	48	44.4	338	2	US-10-155-435-6	Seq
37	48	44.4	1244	2	US-09-949-016-11702	Seq
38	47	43.5	103	2	US-08-308-388-1	Seq
39	47	43.5	187	2	US-08-493-071-16	Seq
40	47	43.5	190	1	US-08-393-985-25	Seq
41	47	43.5	236	2	US-08-493-071-15	Seq
42	47	43.5	259	2	US-09-509-738C-25	Seq
43	47	43.5	263	1	US-08-393-985-23	Seq
44	47	43.5	277	1	US-08-690-457-5	Seq
45	47	43.5	277	1	US-08-628-187-5	Seq

ALIGNMENTS

RESULT 1
US-08-313-681A-4
; Sequence 4, Application US/08313681A
; Patent No. 5618675
; GENERAL INFORMATION:
; APPLICANT: Larrick, James W.
; APPLICANT: Wright, Susan C.
; APPLICANT: Hirata, Mishimasa
; TITLE OF INVENTION: Human Cationic Proteins Having
; TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend Kourie and Crew
; STREET: One Market Plaza, Steuart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,681A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15325-9-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-313-681A-4
Query Match 100.0%; Score 108; DB 1; Length 1
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 22; Conservative 0; Mismatches 0; Indels 0;
QY 1 RKRLKRPNKIKKKIKIGOKI 22
DB 137 RKRLKRPNKIKKKIKIGOKI 158


```

CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Filtz, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 23
OTHER INFORMATION: /note= "Xaa is Asp or Lys"
FEATURE:
NAME/KEY: Region
LOCATION: 26
OTHER INFORMATION: /note= "Xaa is a Gln or Ile"
FEATURE:
NAME/KEY: Region
LOCATION: 27
OTHER INFORMATION: /note= "Xaa is a Gly or Gln"
US-09-322-911-7
Query Match 94.4%; Score 102; DB 2; Length 29;
Best Local Similarity 95.5%; Pred. No. 1.7e-06;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 RKRLKPRNKIKERKIKIGQKI 22
Db 3 RKRLKPRNKIKERKIKIGQKI 24
RESULT 5
US-08-313-681A-11
Sequence 11, Application US/08313681A
Patent No. 5618675
GENERAL INFORMATION:

```

```

APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
TITLE OF INVENTION: Human Cationic Proteins Having
TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: One Market Plaza, Stewart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,681A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15325-9-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-313-681A-11
Query Match 64.8%; Score 70; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 14; Conservative 0; Mismatches 0; Indels 0;
Qy 1 RKRLKPRNKIKER 14
Db 3 RKRLKPRNKIKER 16
RESULT 6
US-09-322-911-11
Sequence 11, Application US/09322911
Patent No. 6103888
GENERAL INFORMATION:
APPLICANT: Larrick, James W.
APPLICANT: Wright, Susan C.
APPLICANT: Hirata, Mishimasa
APPLICANT: Balint, Robert F.
TITLE OF INVENTION: Human Cationic Proteins Having
TITLE OF INVENTION: Lipopolysaccharide Binding and Anti-
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/322,911

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FILED DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/691,280
FILING DATE: August 1, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,761
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/916,765
FILING DATE: July 17, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06731
FILING DATE: July 15, 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/313,681
FILING DATE: September 27, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Fites, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 15325-000920
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-322-911-11

Query Match 64.8%; Score 70; DB 2; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RKRLRKPKIKIK 14
|||
Db 3 RKRLRKPKIKIK 16

RESULT 7
PCT-US95-12080-4
Sequence 4, Application PC/TUS9512080
GENERAL INFORMATION:
APPLICANT: Children's Medical Center Corporation
TITLE OF INVENTION: Synuclein Mediated Modulation of Tissue Repair
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Patricia L. Pabst
STREET: 2800 One Atlantic Center
STREET: 1201 West Peachtree
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/12080
FILING DATE:
CLASSIFICATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-873-8794
TELEFAX: (404)-815-8795
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid

TOPOLOGY: linear
PCT-US95-12080-4

Query Match 59.3%; Score 64; DB 4; Length 33;
Best Local Similarity 78.9%; Pred. No. 0.12;
Matches 15; Conservative 0; Mismatches 4; Indels 0;

OY 4 LRKFRNKIKKKIKGKI 22
|||
Db 3 LRKGRKIKKKIKGKI 21

RESULT 8
US-09-735-846-25
Sequence 25, Application US/09735846
Patent No. 6730823
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSF
FILE REFERENCE: BB1419 US NA
CURRENT APPLICATION NUMBER: US/09/735,846
CURRENT FILING DATE: 2000-12-13
PRIOR APPLICATION NUMBER: 60/170,375
PRIOR FILING DATE: 13 DECEMBER 1999
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-09-735-846-25

Query Match 55.6%; Score 60; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 3.1;
Matches 10; Conservative 7; Mismatches 3; Indels 0;

OY 3 RLKFRNKIKKKIKGKI 22
|||
Db 198 RLKGLQKVKQKQKVGSKI 217

RESULT 9
US-10-233-926-25
Sequence 25, Application US/10233926
Patent No. 6900369
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Kinney, Anthony J.
TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSF
FILE REFERENCE: BB1419 US NA
CURRENT APPLICATION NUMBER: US/10/233,926
CURRENT FILING DATE: 2002-09-03
PRIOR APPLICATION NUMBER: US/09/735,846
PRIOR FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Microsoft Office 97
SEQ ID NO 25
LENGTH: 326
TYPE: PRT
ORGANISM: Brassica napus
US-10-233-926-25

Query Match 55.6%; Score 60; DB 2; Length 326;
Best Local Similarity 50.0%; Pred. No. 3.1;
Matches 10; Conservative 7; Mismatches 3; Indels 0;

OY 3 RLKFRNKIKKKIKGKI 22
|||
Db 198 RLKGLQKVKQKQKVGSKI 217

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RESULT 10
; US-09-735-846-24
; Sequence 24, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Braesica napus
; US-09-735-846-24

Query Match      52.8%; Score 57; DB 2; Length 329;
Best Local Similarity 45.0%; Pred. No. 7.5;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy      3 RLKFRNKIKKIKGQKI 22
      |||: : :|||: : :|||
Db      205 RLKQLQERVKQEQKVGSKI 224

RESULT 11
; US-10-233-926-24
; Sequence 24, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 24
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Braesica napus
; US-10-233-926-24

Query Match      52.8%; Score 57; DB 2; Length 329;
Best Local Similarity 45.0%; Pred. No. 7.5;
Matches 9; Conservative 8; Mismatches 3; Indels 0; Gaps 0;

Qy      3 RLKFRNKIKKIKGQKI 22
      |||: : :|||: : :|||
Db      205 RLKQLQERVKQEQKVGSKI 224

RESULT 12
; US-09-735-846-23
; Sequence 23, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
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; CURRENT APPLICATION NUMBER: US/09/735,846
; CURRENT FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Braesica napus
; US-09-735-846-23

Query Match      52.8%; Score 57; DB 2; Length 331
Best Local Similarity 45.0%; Pred. No. 7.5;
Matches 9; Conservative 8; Mismatches 3; Indels 0;

Qy      3 RLKFRNKIKKIKGQKI 22
      |||: : :|||: : :|||
Db      205 RLKQLQERVKQEQKVGSKI 224

RESULT 13
; US-10-233-926-23
; Sequence 23, Application US/10233926
; Patent No. 6900369
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/10/233,926
; PRIOR FILING DATE: 2002-09-03
; PRIOR APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Braesica napus
; US-10-233-926-23

Query Match      52.8%; Score 57; DB 2; Length 331
Best Local Similarity 45.0%; Pred. No. 7.5;
Matches 9; Conservative 8; Mismatches 3; Indels 0;

Qy      3 RLKFRNKIKKIKGQKI 22
      |||: : :|||: : :|||
Db      205 RLKQLQERVKQEQKVGSKI 224

RESULT 14
; US-09-735-846-6
; Sequence 6, Application US/09735846
; Patent No. 6730823
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Falco, S. Carl
; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
; FILE REFERENCE: BB1419 US NA
; CURRENT APPLICATION NUMBER: US/09/735,846
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: 60/170,375
; PRIOR FILING DATE: 13 DECEMBER 1999
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Glycine max
; US-09-735-846-6
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Query Match 50.0%; Score 54; DB 2; Length 194;
 Best Local Similarity 42.9%; Pred. No. 11;
 Matches 9; Conservative 7; Mismatches 5; Indels 0; Gaps 0;

Qy 2 KRLKRPFKIKIKKIKGQKI 22
 :||: :||: :||: :||: :||:
 Db 125 RRLKTLQEKVKEHOKVGKIKI 145

RESULT 15
 US-10-233-926-6
 ; Sequence 6, Application US/10233926
 ; Patent No. 6900369
 ; GENERAL INFORMATION:
 ; APPLICANT: Allen, Stephen M.
 ; APPLICANT: Kinney, Anthony J.
 ; APPLICANT: Falco, S. Carl
 ; TITLE OF INVENTION: PLANT CHOLINE PHOSPHATE CYTIDYLYLTRANSFERASE
 ; FILE REFERENCE: BB1419 US NA
 ; CURRENT APPLICATION NUMBER: US/10/233,926
 ; PRIOR FILING DATE: 2002-09-03/735,846
 ; PRIOR APPLICATION NUMBER: US/09/735,846
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 6
 ; LENGTH: 194
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 US-10-233-926-6

Query Match 50.0%; Score 54; DB 2; Length 194;
 Best Local Similarity 42.9%; Pred. No. 11;
 Matches 9; Conservative 7; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 KRLKRPFKIKIKKIKGQKI 22
 :||: :||: :||: :||: :||:
 Db 125 RRLKTLQEKVKEHOKVGKIKI 145

Search completed: December 16, 2005, 01:24:11
 Job time : 25.657 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 1.83178 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-17
Perfect score: 57
Sequence: 1 RRIIRKIIHIK 12

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	57	100.0	18	US-11-092-496-8	Sequence 8, Appli
2	57	100.0	18	US-11-092-496-15	Sequence 15, Appli
3	57	100.0	18	US-11-092-496-22	Sequence 22, Appli
4	57	100.0	18	US-11-092-496-29	Sequence 29, Appli
5	56	98.2	18	US-11-119-581-64	Sequence 64, Appli
6	55	96.5	18	US-11-119-581-60	Sequence 60, Appli
7	53	93.0	18	US-11-119-581-59	Sequence 59, Appli
8	52	91.2	18	US-11-092-496-3	Sequence 3, Appli
9	52	91.2	18	US-11-092-496-7	Sequence 7, Appli
10	52	91.2	18	US-11-092-496-10	Sequence 10, Appli
11	52	91.2	18	US-11-092-496-14	Sequence 14, Appli
12	52	91.2	18	US-11-092-496-17	Sequence 17, Appli
13	52	91.2	18	US-11-092-496-21	Sequence 21, Appli
14	52	91.2	18	US-11-092-496-24	Sequence 24, Appli
15	52	91.2	18	US-11-092-496-28	Sequence 28, Appli
16	52	91.2	18	US-11-092-496-51	Sequence 61, Appli
17	52	91.2	18	US-11-119-581-62	Sequence 62, Appli
18	51	89.5	18	US-11-092-496-4	Sequence 4, Appli
19	51	89.5	18	US-11-092-496-11	Sequence 11, Appli
20	51	89.5	18	US-11-092-496-18	Sequence 18, Appli
21	51	89.5	18	US-11-092-496-25	Sequence 25, Appli
22	50	87.7	18	US-11-092-496-5	Sequence 5, Appli
23	50	87.7	18	US-11-092-496-6	Sequence 6, Appli
24	50	87.7	18	US-11-092-496-12	Sequence 12, Appli
25	50	87.7	18	US-11-092-496-13	Sequence 13, Appli

26	50	87.7	18	US-11-092-496-19	Seq
27	50	87.7	18	US-11-092-496-20	Seq
28	50	87.7	18	US-11-092-496-26	Seq
29	50	87.7	18	US-11-092-496-27	Seq
30	50	87.7	18	US-11-119-581-63	Seq
31	49	86.0	18	US-11-092-496-2	Seq
32	49	86.0	18	US-11-092-496-9	Seq
33	49	86.0	18	US-11-092-496-16	Seq
34	49	86.0	18	US-11-092-496-23	Seq
35	49	86.0	18	US-11-119-581-1	Seq
36	49	86.0	18	US-11-119-581-5	Seq
37	49	86.0	18	US-11-119-581-7	Seq
38	49	86.0	18	US-11-119-581-10	Seq
39	49	86.0	18	US-11-119-581-11	Seq
40	49	86.0	18	US-11-119-581-12	Seq
41	49	86.0	18	US-11-119-581-13	Seq
42	49	86.0	18	US-11-119-581-14	Seq
43	49	86.0	18	US-11-119-581-15	Seq
44	49	86.0	18	US-11-119-581-16	Seq
45	49	86.0	18	US-11-119-581-17	Seq

ALIGNMENTS

RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-Isoleucine
US-11-092-496-8

Query Match 100.0%; Score 57; DB 7; Length 18.
Best local Similarity 100.0%; Pred. No. 0.00012;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

Cy 1 RRIIRKIIHIK 12
Db 4 RRIIRKIIHIK 15

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 100.0%; Score 57; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIIHIK 12
DB 4 RRIIRKIIHIK 15

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 100.0%; Score 57; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIIHIK 12
DB 4 RRIIRKIIHIK 15

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 100.0%; Score 57; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIIHIK 12
DB 4 RRIIRKIIHIK 15

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorocea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.2%; Score 56; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00019;
Matches 11; Conservative 1; Mismatches 0; Indels 0;

QY 1 RRIIRKIIHIK 12
DB 4 RRIIRKIIHIK 15

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorocea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 96.5%; Score 55; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00027;
Matches 11; Conservative 1; Mismatches 0; Indels 0;

QY 1 RRIIRKIIHIK 12

|||||:|||||
Db 4 RRIIRKIHIIK 15

RESULT 7
US-11-119-581-59

; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorotea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sanksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 93.0%; Score 53; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.0006;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIIK 12
|||:|||||
Db 4 RRIIRKIHIIK 15

RESULT 8
US-11-092-496-3

; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIIK 12
|||:|||||
Db 4 RRIIRKIHIIK 15

RESULT 9
US-11-092-496-7

; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIIK 12
|||:|||||
Db 4 RRIIRKIHIIK 15

RESULT 10
US-11-092-496-10

; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIIK 12
|||:|||||
Db 4 RRIIRKIHIIK 15

RESULT 11
US-11-092-496-14

; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7) (7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
Db 4 RRIIRKIHIHK 15

RESULT 12
US-11-092-496-17

; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 17
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
Db 4 RRIIRKIHIHK 15

RESULT 13

US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (10) (10)
; OTHER INFORMATION: D-alanine
US-11-092-496-21

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12

Db 4 RRIIRKIHIHK 15

RESULT 14
US-11-092-496-24
; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 24
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
Db 4 RRIIRKIHIHK 15

RESULT 15
US-11-092-496-28
; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 28
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (11) (11)
; OTHER INFORMATION: D-alanine
US-11-092-496-28

Query Match 91.2%; Score 52; DB 7; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.00089;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
Db 4 RRIIRKIHIHK 15

Search completed: December 16, 2005, 03:10:09
Job time : 1.88441 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 46.0187 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-17
Perfect score: 57
Sequence: 1 RRIIRKIHNIK 12

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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3: /cgn2_6/ptodata/1/pubpaa/US09_PUBSCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBSCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBSCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	57	100.0	14	US-10-060-102-13	Sequence 13, Appl
2	57	100.0	14	US-10-060-102-18	Sequence 18, Appl
3	57	100.0	14	US-10-060-102-19	Sequence 19, Appl
4	57	100.0	14	US-10-060-102-20	Sequence 20, Appl
5	57	100.0	14	US-10-721-839-13	Sequence 13, Appl
6	57	100.0	14	US-10-721-839-18	Sequence 18, Appl
7	57	100.0	14	US-10-721-839-19	Sequence 19, Appl
8	57	100.0	14	US-10-721-839-20	Sequence 20, Appl
9	57	100.0	14	US-10-721-829-13	Sequence 13, Appl
10	57	100.0	14	US-10-721-829-18	Sequence 18, Appl
11	57	100.0	14	US-10-721-829-19	Sequence 19, Appl
12	57	100.0	14	US-10-721-829-20	Sequence 20, Appl
13	57	100.0	16	US-10-060-102-14	Sequence 14, Appl
14	57	100.0	16	US-10-060-102-15	Sequence 15, Appl
15	57	100.0	16	US-10-721-839-14	Sequence 14, Appl
16	57	100.0	16	US-10-721-839-15	Sequence 15, Appl
17	57	100.0	16	US-10-721-829-14	Sequence 14, Appl
18	57	100.0	16	US-10-721-829-15	Sequence 15, Appl
19	57	100.0	18	US-09-840-009-2	Sequence 2, Appl
20	57	100.0	18	US-09-840-009-9	Sequence 9, Appl
21	57	100.0	18	US-09-840-009-16	Sequence 16, Appl
22	57	100.0	18	US-09-840-009-23	Sequence 23, Appl
23	57	100.0	18	US-09-840-009-30	Sequence 30, Appl
24	57	100.0	18	US-10-060-102-9	Sequence 9, Appl
25	57	100.0	18	US-10-060-102-10	Sequence 10, Appl
26	57	100.0	18	US-10-060-102-11	Sequence 11, Appl
27	57	100.0	18	US-10-060-102-12	Sequence 12, Appl

ALIGNMENTS

28	57	100.0	18	4	US-10-721-839-9	Se
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32	57	100.0	18	5	US-10-721-829-9	Se
33	57	100.0	18	5	US-10-721-829-10	Se
34	57	100.0	18	5	US-10-721-829-11	Se
35	57	100.0	18	5	US-10-721-829-12	Se
36	57	100.0	29	4	US-10-060-102-8	Se
37	57	100.0	29	4	US-10-721-839-8	Se
38	57	100.0	29	5	US-10-721-829-8	Se
39	52	91.2	18	3	US-09-840-009-4	Se
40	52	91.2	18	3	US-09-840-009-8	Se
41	52	91.2	18	3	US-09-840-009-11	Se
42	52	91.2	18	3	US-09-840-009-15	Se
43	52	91.2	18	3	US-09-840-009-18	Se
44	52	91.2	18	3	US-09-840-009-22	Se
45	52	91.2	18	3	US-09-840-009-25	Se

RESULT 1

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US-10-060-102-13
; Sequence 13, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TR
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060.102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-13
;
; Query Match 100.0%; Score 57; DB 4; Length 14;
; Best Local Similarity 100.0%; Pred. No. 0.0059;
; Matches 12; Conservative 0; Mismatches 0; Indels 0;
;
; DB 1 RRIIRKIHNIK 12
; 2 RRIIRKIHNIK 13
;
; RESULT 2
US-10-060-102-18
; Sequence 18, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

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APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALIAN CATELICIDINS
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-060-102-18

Query Match      100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RRIIRKIHIHK 12
        |||||
Db       2 RRIIRKIHIHK 13

RESULT 3
US-10-060-102-19
Sequence 19, Application US/10060102
Publication No. US2003022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALIAN CATELICIDINS
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-060-102-19

Query Match      100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RRIIRKIHIHK 12
        |||||
Db       2 RRIIRKIHIHK 13

RESULT 4
US-10-060-102-20
Sequence 20, Application US/10060102

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Query Match      100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY      1 RRIIRKIIHIHK 12
        |||||||
Db       2 RRIIRKIIHIHK 13

RESULT 5
US-10-721-839-13
Sequence 13, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-13

Query Match      100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY      1 RRIIRKIIHIHK 12
        |||||||
Db       2 RRIIRKIIHIHK 13

RESULT 5
US-10-721-839-13
Sequence 13, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-13

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OY 1 RRIIRKIHIIK 12
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Db 2 RRIIRKIHIIK 13

RESULT 6

US-10-721-839-18
; Sequence 18, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/721.839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060.102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 18
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-721-839-18

Query Match 100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RRIIRKIHIIK 12
| | | | | | | | | |
Db 2 RRIIRKIHIIK 13

RESULT 7

US-10-721-839-19
; Sequence 19, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/721.839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060.102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 19

LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
; OTHER INFORMATION: Peptide
US-10-721-839-19

Query Match 100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

OY 1 RRIIRKIHIIK 12
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Db 2 RRIIRKIHIIK 13

RESULT 8

US-10-721-839-20
; Sequence 20, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/721.839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060.102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 20
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
; OTHER INFORMATION: Peptide
US-10-721-839-20

Query Match 100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

OY 1 RRIIRKIHIIK 12
| | | | | | | | | |
Db 2 RRIIRKIHIIK 13

RESULT 9

US-10-721-829-13
; Sequence 13, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOWA.035US

Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 RRIIRKIIHIK 12
Db 2 RRIIRKIIHIK 13

RESULT 13
US-10-060-102-14
Sequence 14, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2002-02-22
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-14

Query Match 100.0%; Score 57; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 RRIIRKIIHIK 12
Db 3 RRIIRKIIHIK 14

RESULT 14
US-10-060-102-15
Sequence 15, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2002-02-22
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 16
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
OTHER INFORMATION: Peptide
US-10-060-102-15

Query Match 100.0%; Score 57; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

Oy 1 RRIIRKIIHIK 12
Db 3 RRIIRKIIHIK 14

RESULT 15
US-10-721-839-14
Sequence 14, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2003-11-25
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
OTHER INFORMATION: Peptide
US-10-721-839-14

Query Match 100.0%; Score 57; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

Oy 1 RRIIRKIIHIK 12
Db 3 RRIIRKIIHIK 14

Search completed: December 16, 2005, 03:09:14
Job time : 46.0187 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 : Search time 13.4206 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744e-17

Perfect score: 57

Sequence: 1 RRIIRKIIHIK 12

Scoring table:

BLOSUM62

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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4: /cgn2_6/ptodata/1/1aa/PCRTUS_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	57	100.0	18 2 US-09-840-009-2	Sequence 2, Appli
2	57	100.0	18 2 US-09-840-009-9	Sequence 9, Appli
3	57	100.0	18 2 US-09-840-009-16	Sequence 16, Appli
4	57	100.0	18 2 US-09-840-009-23	Sequence 23, Appli
5	57	100.0	18 2 US-09-840-009-30	Sequence 30, Appli
6	52	91.2	18 2 US-09-840-009-4	Sequence 4, Appli
7	52	91.2	18 2 US-09-840-009-8	Sequence 8, Appli
8	52	91.2	18 2 US-09-840-009-11	Sequence 11, Appli
9	52	91.2	18 2 US-09-840-009-15	Sequence 15, Appli
10	52	91.2	18 2 US-09-840-009-18	Sequence 18, Appli
11	52	91.2	18 2 US-09-840-009-22	Sequence 22, Appli
12	52	91.2	18 2 US-09-840-009-25	Sequence 25, Appli
13	52	91.2	18 2 US-09-840-009-29	Sequence 29, Appli
14	51	89.5	18 2 US-09-840-009-5	Sequence 5, Appli
15	51	89.5	18 2 US-09-840-009-12	Sequence 12, Appli
16	51	89.5	18 2 US-09-840-009-19	Sequence 19, Appli
17	51	89.5	18 2 US-09-840-009-26	Sequence 26, Appli
18	50	87.7	18 2 US-09-840-009-6	Sequence 6, Appli
19	50	87.7	18 2 US-09-840-009-7	Sequence 7, Appli
20	50	87.7	18 2 US-09-840-009-13	Sequence 13, Appli
21	50	87.7	18 2 US-09-840-009-14	Sequence 14, Appli
22	50	87.7	18 2 US-09-840-009-20	Sequence 20, Appli
23	50	87.7	18 2 US-09-840-009-21	Sequence 21, Appli
24	50	87.7	18 2 US-09-840-009-27	Sequence 27, Appli
25	50	87.7	18 2 US-09-840-009-28	Sequence 28, Appli
26	49	86.0	18 2 US-09-840-009-3	Sequence 3, Appli
27	49	86.0	18 2 US-09-840-009-10	Sequence 10, Appli

28	49	86.0	18 2 US-09-840-009-17	Seq	p1
29	49	86.0	18 2 US-09-840-009-24	Seq	p1
30	49	86.0	18 2 US-09-840-009-31	Seq	p1
31	49	86.0	18 2 US-09-840-009-34	Seq	p1
32	49	86.0	18 2 US-09-840-009-35	Seq	p1
33	41	71.9	18 2 US-09-840-009-32	Seq	p1
34	41	71.9	18 2 US-09-840-009-33	Seq	p1
35	41	71.9	18 2 US-09-840-009-36	Seq	p1
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39	37	64.9	24 2 US-10-079-075-5	Seq	p1
40	37	64.9	36 2 US-09-785-059B-6	Seq	p1
41	37	64.9	36 2 US-10-079-075-6	Seq	p1
42	37	64.9	42 2 US-09-785-059B-7	Seq	p1
43	37	64.9	42 2 US-10-079-075-7	Seq	p1
44	37	64.9	48 2 US-09-785-059B-8	Seq	p1
45	37	64.9	48 2 US-10-079-075-8	Seq	p1

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          100.0%; Score 57; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0041;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY      1 RRIIRKIIHIK 12
Db      4 RRIIRKIIHIK 15

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

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LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 57; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0041;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIHIHK 12
|||||
Db 4 RRIIRKIHIHK 15

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-16

Query Match 100.0%; Score 57; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0041;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIHIHK 12
|||||
Db 4 RRIIRKIHIHK 15

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 57; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0041;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIHIHK 12
|||||
Db 4 RRIIRKIHIHK 15

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-30

Query Match 100.0%; Score 57; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0041;
Matches 12; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIHIHK 12
|||||
Db 4 RRIIRKIHIHK 15

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.0271;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
|||
Db 4 RRIIRKIHIHK 15

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; TYPE: PRT
; LENGTH: 18
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RRIIRKIHIHK 12
|||
Db 4 RRIIRKIHIHK 15

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; TYPE: PRT
; LENGTH: 18
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RRIIRKIHIHK 12
|||
Db 4 RRIIRKIHIHK 15

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; TYPE: PRT
; LENGTH: 18
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
|||
Db 4 RRIIRKIHIHK 15

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; TYPE: PRT
; LENGTH: 18
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKIHIHK 12
|||
Db 4 RRIIRKIHIHK 15

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-22

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 RRIIRKIHIHK 12
Db 4 RRIIRKIAHIHK 15

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 RRIIRKIHIHK 12
Db 4 RRIIRKIAHIHK 15

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-29

Query Match 91.2%; Score 52; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.027;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

OY 1 RRIIRKIHIHK 12
Db 4 RRIIRKIAHIHK 15

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 89.5%; Score 51; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.039;
Matches 11; Conservative 0; Mismatches 1; Indels 0;

OY 1 RRIIRKIHIHK 12
Db 4 RRIIRKIAHIHK 15

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

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Query Match      89.5%; Score 51; DB 2; Length 18;
Best Local Similarity 91.7%; Pred. No. 0.039;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1 RRIIRKIIHIK 12
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Db      4 RRIIRKIIHIK 15

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Job time : 14.4732 secs

2161 11111111

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 : Search time 1.98442 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-16
Perfect score: 62
Sequence: 1 RRIIRKIIHIKK 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCF_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US66_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	100.0	18	7	US-11-092-496-8
2	62	100.0	18	7	US-11-092-496-15
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4	62	100.0	18	7	US-11-092-496-29
5	61	98.4	18	7	US-11-119-581-64
6	60	96.8	18	7	US-11-119-581-60
7	58	93.5	18	7	US-11-119-581-59
8	57	91.9	18	7	US-11-092-496-3
9	57	91.9	18	7	US-11-092-496-7
10	57	91.9	18	7	US-11-092-496-10
11	57	91.9	18	7	US-11-092-496-14
12	57	91.9	18	7	US-11-092-496-17
13	57	91.9	18	7	US-11-092-496-21
14	57	91.9	18	7	US-11-092-496-24
15	57	91.9	18	7	US-11-092-496-28
16	57	91.9	18	7	US-11-119-581-61
17	57	91.9	18	7	US-11-119-581-62
18	56	90.3	18	7	US-11-092-496-4
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23	55	88.7	18	7	US-11-092-496-6
24	55	88.7	18	7	US-11-092-496-12
25	55	88.7	18	7	US-11-092-496-13

26	55	88.7	18	7	US-11-092-496-19	Sec
27	55	88.7	18	7	US-11-092-496-20	Sec
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33	54	87.1	18	7	US-11-092-496-16	Sec
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42	54	87.1	18	7	US-11-119-581-14	Sec
43	54	87.1	18	7	US-11-119-581-15	Sec
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45	54	87.1	18	7	US-11-119-581-17	Sec

ALIGNMENTS

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RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8

-Query Match 100.0%; Score 62; DB 7; Length 18
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Cy 1 RRIIRKIIHIKK 13
Db 4 RRIIRKIIHIKK 16

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

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ORGANISM: Artificial sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 100.0%; Score 62; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RRIIRKIHIHKK 13
Db 4 RRIIRKIHIHKK 16

RESULT 3

US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 100.0%; Score 62; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RRIIRKIHIHKK 13
Db 4 RRIIRKIHIHKK 16

RESULT 4

US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 100.0%; Score 62; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.5e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Qy 1 RRIIRKIHIHKK 13
Db 4 RRIIRKIHIHKK 16

RESULT 5

US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 5.2e-05;
Matches 12; Conservative 1; Mismatches 0; Indels 0;

Qy 1 RRIIRKIHIHKK 13
Db 4 RRIIRKIHIHKK 16

RESULT 6

US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURES:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 96.8%; Score 60; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 7.7e-05;
Matches 12; Conservative 1; Mismatches 0; Indels 0;

Qy 1 RRIIRKIHIHKK 13

Db 4 RRIIRKLIHIKK 16

RESULT 7
US-11-119-581-59

; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 93.5%; Score 58; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00017;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKLIHIKK 13
Db 4 RRIIRKLIHIKK 16

RESULT 8
US-11-092-496-3

; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 91.9%; Score 57; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00024;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RRIIRKLIHIKK 13
Db 4 RRIIRKLIHIKK 16

RESULT 9
US-11-092-496-7

; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 91.9%; Score 57; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00024;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKLIHIKK 13
Db 4 RRIIRKLIHIKK 16

RESULT 10
US-11-092-496-10

; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 91.9%; Score 57; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00024;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 RRIIRKLIHIKK 13
Db 4 RRIIRKLIHIKK 16

RESULT 11
US-11-092-496-14

; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 49.8536 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-16
Perfect score: 62
Sequence: 1 RRIIRKIHITKK 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.rep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.rep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.rep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.rep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.rep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	100.0	14	US-10-060-102-13	Sequence 13, Appl
2	62	100.0	14	US-10-060-102-18	Sequence 18, Appl
3	62	100.0	14	US-10-060-102-19	Sequence 19, Appl
4	62	100.0	14	US-10-060-102-20	Sequence 20, Appl
5	62	100.0	14	US-10-721-839-13	Sequence 13, Appl
6	62	100.0	14	US-10-721-839-18	Sequence 18, Appl
7	62	100.0	14	US-10-721-839-19	Sequence 19, Appl
8	62	100.0	14	US-10-721-839-20	Sequence 20, Appl
9	62	100.0	14	US-10-721-829-13	Sequence 13, Appl
10	62	100.0	14	US-10-721-829-18	Sequence 18, Appl
11	62	100.0	14	US-10-721-829-19	Sequence 19, Appl
12	62	100.0	14	US-10-721-829-20	Sequence 20, Appl
13	62	100.0	16	US-10-060-102-14	Sequence 14, Appl
14	62	100.0	16	US-10-060-102-15	Sequence 15, Appl
15	62	100.0	16	US-10-721-839-14	Sequence 14, Appl
16	62	100.0	16	US-10-721-839-15	Sequence 15, Appl
17	62	100.0	16	US-10-721-829-14	Sequence 14, Appl
18	62	100.0	16	US-10-721-829-15	Sequence 15, Appl
19	62	100.0	18	US-09-840-009-2	Sequence 2, Appl
20	62	100.0	18	US-09-840-009-9	Sequence 9, Appl
21	62	100.0	18	US-09-840-009-16	Sequence 16, Appl
22	62	100.0	18	US-09-840-009-23	Sequence 23, Appl
23	62	100.0	18	US-10-060-102-9	Sequence 9, Appl
24	62	100.0	18	US-10-060-102-10	Sequence 10, Appl
25	62	100.0	18	US-10-060-102-11	Sequence 11, Appl
26	62	100.0	18	US-10-060-102-12	Sequence 12, Appl
27	62	100.0	18	US-10-060-102-12	Sequence 12, Appl

28	62	100.0	18	4	US-10-721-839-9	Seq	11
29	62	100.0	18	4	US-10-721-839-10	Seq	p1
30	62	100.0	18	4	US-10-721-839-11	Seq	p1
31	62	100.0	18	4	US-10-721-839-12	Seq	p1
32	62	100.0	18	5	US-10-721-829-9	Seq	11
33	62	100.0	18	5	US-10-721-829-10	Seq	p1
34	62	100.0	18	5	US-10-721-829-11	Seq	p1
35	62	100.0	18	5	US-10-721-829-12	Seq	p1
36	62	100.0	29	4	US-10-060-102-8	Seq	11
37	62	100.0	29	4	US-10-721-839-8	Seq	11
38	62	100.0	29	5	US-10-721-829-8	Seq	11
39	57	91.9	18	3	US-09-840-009-4	Seq	11
40	57	91.9	18	3	US-09-840-009-8	Seq	11
41	57	91.9	18	3	US-09-840-009-11	Seq	p1
42	57	91.9	18	3	US-09-840-009-15	Seq	p1
43	57	91.9	18	3	US-09-840-009-18	Seq	p1
44	57	91.9	18	3	US-09-840-009-22	Seq	p1
45	57	91.9	18	3	US-09-840-009-25	Seq	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-13
; Sequence 13, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060.102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYI
US-10-060-102-13
Query Match 100.0%; Score 62; DB 4; Length 14
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIHITKK 13
Db 2 RRIIRKIHITKK 14

RESULT 2
US-10-060-102-18
; Sequence 18, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:0350S
CURRENT APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-060-102-18

Query Match      100.0%; Score 62; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RRIIRKIHIHK 13
        |||
        2 RRIIRKIHIHK 14

RESULT 3
US-10-060-102-19
Sequence 19, Application US/10060102
Publication No. US20030028292A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLBER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:0350S
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-060-102-19

Query Match      100.0%; Score 62; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        |||
        2 RRIIRKIHIHK 14

RESULT 4
US-10-060-102-20
Sequence 20, Application US/10060102

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; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: CATHELICIDINS
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-060-102-20

Query Match          100.0%; Score 62; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY      1 RRIIRKIHIIRK 13
        |||||
        2 RRIIRKIHIIRK 14

; AND MAMMALIA

RESULT 5
US-10-721-839-13
; Sequence 13, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: CATHELICIDINS
; CURRENT APPLICATION NUMBER: US/10/721,839
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
US-10-721-839-13

Query Match          100.0%; Score 62; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

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QY 1 RRIIRKIIHIKK 13
Db 2 RRIIRKIIHIKK 14

RESULT 6

US-10-721-839-18

; Sequence 18, Application US/10721839
; Publication No. US20040086535A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

; FILE REFERENCE: IOWA.035US

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 18

; LENGTH: 14

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-10-721-839-18

Query Match 100.0%; Score 62; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIIHIKK 13
Db 2 RRIIRKIIHIKK 14

RESULT 7

US-10-721-839-19

; Sequence 19, Application US/10721839
; Publication No. US20040086535A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

; FILE REFERENCE: IOWA.035US

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 19

; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
; OTHER INFORMATION: Peptide
US-10-721-839-19

Query Match 100.0%; Score 62; DB 4; Length 14
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIIHIKK 13
Db 2 RRIIRKIIHIKK 14

RESULT 8

US-10-721-839-20

; Sequence 20, Application US/10721839
; Publication No. US20040086535A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH

; FILE REFERENCE: IOWA.035US

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 20

; LENGTH: 14

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-20

Query Match 100.0%; Score 62; DB 4; Length 14
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIIHIKK 13
Db 2 RRIIRKIIHIKK 14

RESULT 9

US-10-721-839-13

; Sequence 13, Application US/10721829
; Publication No. US20050113776A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH

; FILE REFERENCE: IOWA.035US

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; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-721-829-13
```

```
Query Match      100.0%; Score 62; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RRIIRKIIHIKK 13
        |||||
Db       2 RRIIRKIIHIKK 14
```

```

RESULT 10
US-10-721-829-18
; Sequence 18, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-721-829-18
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```
Query Match      100.0%; Score 62; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 RRIIRKIIHIKK 13
        |||||
Db       2 RRIIRKIIHIKK 14
```

```

RESULT 11
US-10-721-829-19
; Sequence 19, Application US/10721829
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; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-721-829-19
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```
Query Match      100.0%; Score 62; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;
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```
QY      1 RRIIRKIIHIKK 13
        |||||
Db       2 RRIIRKIIHIKK 14
```

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RESULT 12
US-10-721-829-20
; Sequence 20, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sym
; OTHER INFORMATION: Peptide
US-10-721-829-20
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```
Query Match      100.0%; Score 62; DB 5; Length 14;
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Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RRIIRKIIHIKK 13
|||
Db 2 RRIIRKIIHIKK 14

RESULT 13
US-10-060-102-14
; Sequence 14, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2002-02-22
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-14

Query Match 100.0%; Score 62; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 RRIIRKIIHIKK 13
|||
Db 3 RRIIRKIIHIKK 15

RESULT 14
US-10-060-102-15
; Sequence 15, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2002-02-22
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 16
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SYI
OTHER INFORMATION: Peptide
US-10-060-102-15

Query Match 100.0%; Score 62; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 RRIIRKIIHIKK 13
|||
Db 3 RRIIRKIIHIKK 15

RESULT 15
US-10-721-839-14
; Sequence 14, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SYI
US-10-721-839-14

S AND MAMMALI

Query Match 100.0%; Score 62; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 RRIIRKIIHIKK 13
|||
Db 3 RRIIRKIIHIKK 15

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Job time : 50.8536 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 14.5389 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-16
Perfect score: 62
Sequence: 1 RRIIRKIHIKK 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 8265679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	100.0	18	2	US-09-840-009-2
2	62	100.0	18	2	US-09-840-009-9
3	62	100.0	18	2	US-09-840-009-16
4	62	100.0	18	2	US-09-840-009-23
5	62	100.0	18	2	US-09-840-009-30
6	57	91.9	18	2	US-09-840-009-4
7	57	91.9	18	2	US-09-840-009-8
8	57	91.9	18	2	US-09-840-009-11
9	57	91.9	18	2	US-09-840-009-15
10	57	91.9	18	2	US-09-840-009-18
11	57	91.9	18	2	US-09-840-009-22
12	57	91.9	18	2	US-09-840-009-25
13	57	91.9	18	2	US-09-840-009-29
14	56	90.3	18	2	US-09-840-009-5
15	56	90.3	18	2	US-09-840-009-12
16	56	90.3	18	2	US-09-840-009-19
17	56	90.3	18	2	US-09-840-009-26
18	55	88.7	18	2	US-09-840-009-6
19	55	88.7	18	2	US-09-840-009-7
20	55	88.7	18	2	US-09-840-009-13
21	55	88.7	18	2	US-09-840-009-14
22	55	88.7	18	2	US-09-840-009-20
23	55	88.7	18	2	US-09-840-009-21
24	55	88.7	18	2	US-09-840-009-27
25	55	88.7	18	2	US-09-840-009-28
26	54	87.1	18	2	US-09-840-009-3
27	54	87.1	18	2	US-09-840-009-10

28	54	87.1	18	2	US-09-840-009-17	Seq
29	54	87.1	18	2	US-09-840-009-24	Seq
30	54	87.1	18	2	US-09-840-009-31	Seq
31	54	87.1	18	2	US-09-840-009-34	Seq
32	54	87.1	18	2	US-09-840-009-35	Seq
33	46	74.2	18	2	US-09-840-009-32	Seq
34	46	74.2	18	2	US-09-840-009-33	Seq
35	46	74.2	18	2	US-09-840-009-36	Seq
36	46	74.2	18	2	US-09-840-009-37	Seq
37	42	67.7	18	2	US-09-840-009-1	Seq
38	41	66.1	337	2	US-09-538-092-38	Seq
39	39	62.9	24	2	US-09-785-059B-5	Seq
40	39	62.9	24	2	US-10-079-075-5	Seq
41	39	62.9	36	2	US-09-785-059B-6	Seq
42	39	62.9	36	2	US-10-079-075-6	Seq
43	39	62.9	42	2	US-09-785-059B-7	Seq
44	39	62.9	42	2	US-10-079-075-7	Seq
45	39	62.9	48	2	US-09-785-059B-8	Seq

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match      100.0%; Score 62; DB 2; Length 18.
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Oy      1 RRIIRKIHIKK 13
Db      4 RRIIRKIHIKK 16

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

```

LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 62; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIHIHKK 13
|||
Db 4 RRIIRKIHIHKK 16

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195MO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-16

Query Match 100.0%; Score 62; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRIIRKIHIHKK 13
|||
Db 4 RRIIRKIHIHKK 16

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195MO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 62; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIHIHKK 13
|||
Db 4 RRIIRKIHIHKK 16

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195MO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-30

Query Match 100.0%; Score 62; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 RRIIRKIHIHKK 13
|||
Db 4 RRIIRKIHIHKK 16

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195MO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 91.9%; Score 57; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0085;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 RRIIRKIIHIKK 13
 |||||
 Db 4 RRIIRKIIHIKK 16

RESULT 7

US-09-640-009-8
 ; Sequence 8, Application US/09840009
 ; Patent No. 6492328
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehrer, Robert I.
 ; APPLICANT: Maring, Alan J.
 ; APPLICANT: Tack, Brian F.
 ; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
 ; FILE REFERENCE: 06510-195WO
 ; CURRENT APPLICATION NUMBER: US/09/840,009
 ; PRIOR FILING DATE: 2001-04-19
 ; PRIOR APPLICATION NUMBER: US 09/606,858
 ; NUMBER OF SEQ ID NOS: 37
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 8
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 ; OTHER INFORMATION: D-alanine
 US-09-640-009-8

Query Match 91.9%; Score 57; DB 2; Length 18;
 Best Local Similarity 92.3%; Pred. No. 0.0085;
 Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 RRIIRKIIHIKK 13
 |||||
 Db 4 RRIIRKIIHIKK 16

RESULT 8

US-09-640-009-11
 ; Sequence 11, Application US/09840009
 ; Patent No. 6492328
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehrer, Robert I.
 ; APPLICANT: Maring, Alan J.
 ; APPLICANT: Tack, Brian F.
 ; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
 ; FILE REFERENCE: 06510-195WO
 ; CURRENT APPLICATION NUMBER: US/09/840,009
 ; CURRENT FILING DATE: 2001-04-19
 ; PRIOR APPLICATION NUMBER: US 09/606,858
 ; PRIOR FILING DATE: 2000-06-28
 ; NUMBER OF SEQ ID NOS: 37
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 11
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-640-009-11

Query Match 91.9%; Score 57; DB 2; Length 18;
 Best Local Similarity 92.3%; Pred. No. 0.0085;
 Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 RRIIRKIIHIKK 13
 |||||
 Db 4 RRIIRKIIHIKK 16

RESULT 9
 US-09-640-009-15
 ; Sequence 15, Application US/09840009
 ; Patent No. 6492328
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehrer, Robert I.
 ; APPLICANT: Maring, Alan J.
 ; APPLICANT: Tack, Brian F.
 ; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
 ; FILE REFERENCE: 06510-195WO
 ; CURRENT APPLICATION NUMBER: US/09/840,009
 ; CURRENT FILING DATE: 2001-04-19
 ; PRIOR APPLICATION NUMBER: US 09/606,858
 ; PRIOR FILING DATE: 2000-06-28
 ; NUMBER OF SEQ ID NOS: 37
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 15
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-640-009-15

Query Match 91.9%; Score 57; DB 2; Length 18;
 Best Local Similarity 92.3%; Pred. No. 0.0085;
 Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 RRIIRKIIHIKK 13
 |||||
 Db 4 RRIIRKIIHIKK 16

RESULT 10

US-09-640-009-18
 ; Sequence 18, Application US/09840009
 ; Patent No. 6492328
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehrer, Robert I.
 ; APPLICANT: Maring, Alan J.
 ; APPLICANT: Tack, Brian F.
 ; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
 ; FILE REFERENCE: 06510-195WO
 ; CURRENT APPLICATION NUMBER: US/09/840,009
 ; CURRENT FILING DATE: 2001-04-19
 ; PRIOR APPLICATION NUMBER: US 09/606,858
 ; PRIOR FILING DATE: 2000-06-28
 ; NUMBER OF SEQ ID NOS: 37
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 18
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-640-009-18

Query Match 91.9%; Score 57; DB 2; Length 18;
 Best Local Similarity 92.3%; Pred. No. 0.0085;
 Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 RRIIRKIIHIKK 13
 |||||
 Db 4 RRIIRKIIHIKK 16

RESULT 11

US-09-640-009-22
 ; Sequence 22, Application US/09840009
 ; Patent No. 6492328
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehrer, Robert I.

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; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-22
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Query Match          91.9%; Score 57; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0085;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 RRIIRKIHIIRK 13
         |||||
Db       4 RRIIRKAIHIIRK 16
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RESULT 12
US-09-840-009-25
; Sequence 25, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25
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```
Query Match          91.9%; Score 57; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0085;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 RRIIRKIHIIRK 13
         |||||
Db       4 RRIIRKAIHIIRK 16
```

```
RESULT 13
US-09-840-009-29
; Sequence 29, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
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; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-29
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Query Match          91.9%; Score 57; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0085;
Matches 12; Conservative 0; Mismatches 1; Indels 0;
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```
QY      1 RRIIRKIHIIRK 13
         |||||
Db       4 RRIIRKAIHIIRK 16
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```
RESULT 14
US-09-840-009-5
; Sequence 5, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5
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Query Match          90.3%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.012;
Matches 12; Conservative 0; Mismatches 1; Indels 0;
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QY      1 RRIIRKIHIIRK 13
         |||||
Db       4 RRSIRKIHIIRK 16
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RESULT 15
US-09-840-009-12
; Sequence 12, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 18
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
us-09-840-009-12

Query Match 90.3%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.012;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 RRIIRKIIHIKK 13
Db 4 RRIIRKIIHIKK 16

Search completed: December 16, 2005, 01:24:09
Job time : 14.5916 secs

us-09-642-744e-16.ral

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 1.98442 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-15
Perfect score: 61
Sequence: 1 LRRIRKIHRIK 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
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2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB pep.*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	61	100.0	18	7	US-11-092-496-8
2	61	100.0	18	7	US-11-092-496-15
3	61	100.0	18	7	US-11-092-496-22
4	61	100.0	18	7	US-11-092-496-29
5	60	99.4	18	7	US-11-119-581-64
6	59	96.7	18	7	US-11-119-581-60
7	57	93.4	18	7	US-11-119-581-59
8	56	91.8	18	7	US-11-092-496-3
9	56	91.8	18	7	US-11-092-496-7
10	56	91.8	18	7	US-11-092-496-10
11	56	91.8	18	7	US-11-092-496-14
12	56	91.8	18	7	US-11-092-496-17
13	56	91.8	18	7	US-11-092-496-21
14	56	91.8	18	7	US-11-092-496-24
15	56	91.8	18	7	US-11-092-496-28
16	56	91.8	18	7	US-11-119-581-61
17	56	91.8	18	7	US-11-119-581-62
18	55	90.2	18	7	US-11-092-496-4
19	55	90.2	18	7	US-11-092-496-11
20	55	90.2	18	7	US-11-092-496-18
21	55	90.2	18	7	US-11-092-496-25
22	54	88.5	18	7	US-11-092-496-5
23	54	88.5	18	7	US-11-092-496-6
24	54	88.5	18	7	US-11-092-496-12
25	54	88.5	18	7	US-11-092-496-13

26	54	88.5	18	7	US-11-092-496-19	Seq
27	54	88.5	18	7	US-11-092-496-20	Seq
28	54	88.5	18	7	US-11-092-496-26	Seq
29	54	88.5	18	7	US-11-092-496-27	Seq
30	54	88.5	18	7	US-11-119-581-63	Seq
31	53	86.9	18	7	US-11-092-496-2	Seq
32	53	86.9	18	7	US-11-092-496-9	Seq
33	53	86.9	18	7	US-11-092-496-16	Seq
34	53	86.9	18	7	US-11-092-496-23	Seq
35	53	86.9	18	7	US-11-119-581-1	Seq
36	53	86.9	18	7	US-11-119-581-5	Seq
37	53	86.9	18	7	US-11-119-581-7	Seq
38	53	86.9	18	7	US-11-119-581-10	Seq
39	53	86.9	18	7	US-11-119-581-11	Seq
40	53	86.9	18	7	US-11-119-581-12	Seq
41	53	86.9	18	7	US-11-119-581-13	Seq
42	53	86.9	18	7	US-11-119-581-14	Seq
43	53	86.9	18	7	US-11-119-581-15	Seq
44	53	86.9	18	7	US-11-119-581-16	Seq
45	53	86.9	18	7	US-11-119-581-17	Seq

ALIGNMENTS

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RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8
Query Match 100.0%; Score 61; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIHRIK 13
Db 3 LRRIRKIHRIK 15

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

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ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 100.0%; Score 61; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIK 13
|||||
Db 3 LRRIRKIHIIK 15

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 100.0%; Score 61; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIK 13
|||||
Db 3 LRRIRKIHIIK 15

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 100.0%; Score 61; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIHIIK 13
|||||
Db 3 LRRIRKIHIIK 15

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holae
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.4%; Score 60; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 5.3e-05;
Matches 12; Conservative 1; Mismatches 0; Indels 0;

QY 1 LRRIRKIHIIK 13
|||||
Db 3 LRRIRKIHIIK 15

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holae
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 96.7%; Score 59; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 8.7e-05;
Matches 12; Conservative 1; Mismatches 0; Indels 0;

QY 1 LRRIRKIHIIK 13

Db 3 LRRIRKLIHIK 15

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Doreea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 93.4%; Score 57; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00019;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIK 13
Db 3 LRRIRKLIHIK 15

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 91.8%; Score 56; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00028;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIK 13
Db 3 LRRIRKLIHIK 15

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 91.8%; Score 56; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00028;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIK 13
Db 3 LRRIRKLIHIK 15

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 91.8%; Score 56; DB 7; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.00028;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIK 13
Db 3 LRRIRKLIHIK 15

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 49.8536 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-15
Perfect score: 61
Sequence: 1 LRRIRKIRIH1K 13

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	61	100.0	14	US-10-060-102-13	Sequence 13, Appl
2	61	100.0	14	US-10-060-102-18	Sequence 18, Appl
3	61	100.0	14	US-10-721-839-13	Sequence 13, Appl
4	61	100.0	14	US-10-721-839-18	Sequence 18, Appl
5	61	100.0	14	US-10-721-829-13	Sequence 13, Appl
6	61	100.0	14	US-10-721-829-18	Sequence 18, Appl
7	61	100.0	14	US-10-060-102-14	Sequence 14, Appl
8	61	100.0	16	US-10-721-839-14	Sequence 14, Appl
9	61	100.0	16	US-10-721-829-14	Sequence 14, Appl
10	61	100.0	18	US-09-840-009-2	Sequence 2, Appl
11	61	100.0	18	US-09-840-009-9	Sequence 9, Appl
12	61	100.0	18	US-09-840-009-16	Sequence 16, Appl
13	61	100.0	18	US-09-840-009-23	Sequence 23, Appl
14	61	100.0	18	US-09-840-009-30	Sequence 30, Appl
15	61	100.0	18	US-10-060-102-9	Sequence 9, Appl
16	61	100.0	18	US-10-060-102-12	Sequence 12, Appl
17	61	100.0	18	US-10-721-839-9	Sequence 9, Appl
18	61	100.0	18	US-10-721-839-12	Sequence 12, Appl
19	61	100.0	18	US-10-721-829-9	Sequence 9, Appl
20	61	100.0	18	US-10-721-829-12	Sequence 12, Appl
21	61	100.0	29	US-10-060-102-8	Sequence 8, Appl
22	61	100.0	29	US-10-721-839-8	Sequence 8, Appl
23	61	100.0	29	US-10-721-829-8	Sequence 8, Appl
24	59	96.7	14	US-10-060-102-19	Sequence 19, Appl
25	59	96.7	14	US-10-060-102-20	Sequence 20, Appl
26	59	96.7	14	US-10-721-839-19	Sequence 19, Appl
27	59	96.7	14	US-10-721-839-20	Sequence 20, Appl

28	59	96.7	14	5	US-10-721-829-19	Seq
29	59	96.7	14	5	US-10-721-829-20	Seq
30	59	96.7	16	4	US-10-060-102-15	Seq
31	59	96.7	16	4	US-10-721-839-15	Seq
32	59	96.7	16	5	US-10-721-829-15	Seq
33	59	96.7	18	4	US-10-060-102-10	Seq
34	59	96.7	18	4	US-10-060-102-11	Seq
35	59	96.7	18	4	US-10-721-839-10	Seq
36	59	96.7	18	4	US-10-721-839-11	Seq
37	59	96.7	18	5	US-10-721-829-10	Seq
38	59	96.7	18	5	US-10-721-829-11	Seq
39	56	91.8	18	3	US-09-840-009-4	Seq
40	56	91.8	18	3	US-09-840-009-8	Seq
41	56	91.8	18	3	US-09-840-009-11	Seq
42	56	91.8	18	3	US-09-840-009-15	Seq
43	56	91.8	18	3	US-09-840-009-18	Seq
44	56	91.8	18	3	US-09-840-009-22	Seq
45	56	91.8	18	3	US-09-840-009-25	Seq

ALIGNMENTS

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RESULT 1
US-10-060-102-13
; Sequence 13, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: SY
US-10-060-102-13
Query Match 100.0%; Score 61; DB 4; Length 14
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Cy 1 LRRIRKIRIH1K 13
Db 1 LRRIRKIRIH1K 13

RESULT 2
US-10-060-102-18
; Sequence 18, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-18

Query Match 100.0%; Score 61; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIK 13
Db 1 LRRIRKIHIIK 13

RESULT 3

US-10-721-839-13
Sequence 13, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-13

Query Match 100.0%; Score 61; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIK 13
Db 1 LRRIRKIHIIK 13

RESULT 4

US-10-721-839-18
Sequence 18, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-18

Query Match 100.0%; Score 61; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRRIRKIHIIK 13
Db 1 LRRIRKIHIIK 13

RESULT 5

US-10-721-829-13
Sequence 13, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-13

Query Match 100.0%; Score 61; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRRIRKIHIIK 13
Db 1 LRRIRKIHIIK 13

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-640-009-12

Query Match 90.9%; Score 60; DB 2; Length 18;
Best Local Similarity 92.9%; Pred.No. 0.0035;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LRRIRKRIHHIKK 14
||| ||| ||| |||
Db 3 LRRISRKRIHHIKK 16

Search completed: December 16, 2005, 01:24:08
Job time : 15.71 secs

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; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-22
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Query Match          92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
Qy      1 LRRIRKIHIIKK 14
        |||||
Db      3 LRRIRKIHIIKK 16
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RESULT 12
US-09-840-009-25
; Sequence 25, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25
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Query Match          92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 LRRIRKIHIIKK 14
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Db      3 LRRIRKIHIIKK 16
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US-09-840-009-29
; Sequence 29, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
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; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-29
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Query Match          92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;
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```
Qy      1 LRRIRKIHIIKK 14
        |||||
Db      3 LRRIRKIHIIKK 16
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```
RESULT 14
US-09-840-009-5
; Sequence 5, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5
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Query Match          90.9%; Score 60; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0035;
Matches 13; Conservative 0; Mismatches 1; Indels 0;
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```
Qy      1 LRRIRKIHIIKK 14
        |||||
Db      3 LRRIRKIHIIKK 16
```

```
RESULT 15
US-09-840-009-12
; Sequence 12, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 18
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QY 1 LRRIRKRIHIKK 14
||| |||||
Db 3 LRRIRKRIHIKK 16

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKRIHIKK 14
||| |||||
Db 3 LRRIRKRIHIKK 16

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKRIHIKK 14
||| |||||
Db 3 LRRIRKRIHIKK 16

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKRIHIKK 14
||| |||||
Db 3 LRRIRKRIHIKK 16

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKRIHIKK 14
||| |||||
Db 3 LRRIRKRIHIKK 16

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.


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; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-9

Query Match          100.0%; Score 66; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRRIRKIHIIKK 14
    |||
Db 3 LRRIRKIHIIKK 16

RESULT 3
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-16

Query Match          100.0%; Score 66; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRRIRKIHIIKK 14
    |||
Db 3 LRRIRKIHIIKK 16

RESULT 4
US-09-840-009-23
; Sequence 23, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
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; OTHER INFORMATION: D-isoleucine
US-09-840-009-23

Query Match          100.0%; Score 66; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 LRRIRKIHIIKK 14
    |||
Db 3 LRRIRKIHIIKK 16

RESULT 5
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-30

Query Match          100.0%; Score 66; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 LRRIRKIHIIKK 14
    |||
Db 3 LRRIRKIHIIKK 16

RESULT 6
US-09-840-009-4
; Sequence 4, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match          92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 15.6573 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-11
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_AA*
1: /cgn2_6/ptodata/1/1aa/5.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6.COMB.pep:*
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4: /cgn2_6/ptodata/1/1aa/PCITUS.COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	18	2	US-09-840-009-2
2	66	100.0	18	2	US-09-840-009-9
3	66	100.0	18	2	US-09-840-009-16
4	66	100.0	18	2	US-09-840-009-23
5	66	100.0	18	2	US-09-840-009-30
6	61	92.4	18	2	US-09-840-009-4
7	61	92.4	18	2	US-09-840-009-8
8	61	92.4	18	2	US-09-840-009-11
9	61	92.4	18	2	US-09-840-009-15
10	61	92.4	18	2	US-09-840-009-18
11	61	92.4	18	2	US-09-840-009-22
12	61	92.4	18	2	US-09-840-009-25
13	61	92.4	18	2	US-09-840-009-29
14	60	90.9	18	2	US-09-840-009-5
15	60	90.9	18	2	US-09-840-009-12
16	60	90.9	18	2	US-09-840-009-19
17	60	90.9	18	2	US-09-840-009-26
18	59	89.4	18	2	US-09-840-009-6
19	59	89.4	18	2	US-09-840-009-7
20	59	89.4	18	2	US-09-840-009-13
21	59	89.4	18	2	US-09-840-009-14
22	59	89.4	18	2	US-09-840-009-20
23	59	89.4	18	2	US-09-840-009-21
24	59	89.4	18	2	US-09-840-009-27
25	59	89.4	18	2	US-09-840-009-28
26	58	87.9	18	2	US-09-840-009-3
27	58	87.9	18	2	US-09-840-009-10

28	58	87.9	18	2	US-09-840-009-17	Seq
29	58	87.9	18	2	US-09-840-009-24	Seq
30	58	87.9	18	2	US-09-840-009-31	Seq
31	58	87.9	18	2	US-09-840-009-34	Seq
32	58	87.9	18	2	US-09-840-009-35	Seq
33	50	75.8	18	2	US-09-840-009-32	Seq
34	50	75.8	18	2	US-09-840-009-33	Seq
35	50	75.8	18	2	US-09-840-009-36	Seq
36	50	75.8	18	2	US-09-840-009-37	Seq
37	46	69.7	18	2	US-09-840-009-1	Seq
38	42	63.6	160	2	US-09-917-340-36	Seq
39	41	62.1	337	2	US-09-538-052-38	Seq
40	40	60.6	24	2	US-09-785-059B-5	Seq
41	40	60.6	24	2	US-10-079-075-5	Seq
42	40	60.6	36	2	US-09-785-059B-6	Seq
43	40	60.6	36	2	US-10-079-075-6	Seq
44	40	60.6	42	2	US-09-785-059B-7	Seq
45	40	60.6	42	2	US-10-079-075-7	Seq

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          100.0%; Score 66; DB 2; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

OY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 23
? LENGTH: 18
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURES:
? OTHER INFORMATION: Synthetic antimicrobial peptide
? OTHER INFORMATION: D-Isoleucine
? OS-09-840-009-23

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Query Match	100.0%	Score 66;	DB 3;	Length 18;
Best Local Similarity	100.0%	Pred. No. 0.00097;		
Matches 14; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

Oy	1	LRRIIRKIIHIKK	14
Db	3	LRRIIRKIIHIKK	16

RESULT 14
US-09-840-009-30

Patent No. US20020082195A1

GENERAL INFORMATION:

1. TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES

CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2009-04-10

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28

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; NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows

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; SEQ ID NO 30
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: LENGTH: 18

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; TYPE: PK1
ORGANISM: Artificial Sequence

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OTHER INFO

US-09-840-009-30

Query Match	100.04;	Score	66;	DB	3;	length	18;
Best Local Similarity	100.04;	Pred. NO.	0.00097;				
Matches	14;	Conservative	0;	Mismatches	0;	Indels	0;
				Gaps			0;

Qy	1	LRRIIRKIIHIKK	14
Db	3	LRRIIRKIIHIKK	16

RESULT 15
US-10-060-102-9

;
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL

FILE REFERENCE: IOWA-035115

CURRENT FILING DATE: 2002-02-22

PRIOR FILING DATE: 2001-08-01

PRIOR FILING DATE: 2001-01-30

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: NUMBER OF SEQ ID NOS: 32
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 9
: LENGTH: 18
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURES:
: OTHER INFORMATION: Description of Artificial Sequence: Syn
: OTHER INFORMATION: Peptide
US-10-060-102-9

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Query Match	100.0%;	Score 66;	DB 4;	Length 18,
Best Local Similarity	100.0%;	Pred. No. 0.00097;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	

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QY      1 LRRIIRKIIHIIKK 14
         |||||
Db       3 LRRIIRKIIHIIKK 16
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Search completed: December 16, 2005, 03:09:12
Job time : 53.6885 secs

;; TITLE OF INVENTION: CATHELICIDINS
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721,829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060,102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 14
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: Peptide
US-10-721-829-14

Query Match 100.0%; Score 66; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.00086;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIIHIKK 14
|||
Db 2 LRRIRKIIHIKK 15

RESULT 10
US-09-840-009-2
;; Sequence 2, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840,009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 2
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match 100.0%; Score 66; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIIHIKK 14
|||
Db 3 LRRIRKIIHIKK 16

RESULT 11
US-09-840-009-9
;; Sequence 9, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO

;; CURRENT APPLICATION NUMBER: US/09/840,009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 9
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
;; OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 66; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIIHIKK 14
|||
Db 3 LRRIRKIIHIKK 16

RESULT 12
US-09-840-009-16
;; Sequence 16, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840,009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 16
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 100.0%; Score 66; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIIHIKK 14
|||
Db 3 LRRIRKIIHIKK 16

RESULT 13
US-09-840-009-23
;; Sequence 23, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840,009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37

Query Match 100.0%; Score 66; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 6

US-10-721-829-18
Sequence 18, Application US/10721829
Publication No. US20050113776A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THERA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 18

LENGTH: 14

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-10-721-829-18

Query Match 100.0%; Score 66; DB 5; Length 14;

Best Local Similarity 100.0%; Pred. No. 0.00076;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRRIRKIHIIKK 14

Db 1 LRRIRKIHIIKK 14

RESULT 7

US-10-060-102-14
Sequence 14, Application US/10060102
Publication No. US20030022829A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THERA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 16

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-060-102-14

Query Match 100.0%; Score 66; DB 4; Length 16;

Best Local Similarity 100.0%; Pred. No. 0.00086;

Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 LRRIRKIHIIKK 14

Db 2 LRRIRKIHIIKK 15

RESULT 8

US-10-721-839-14

Sequence 14, Application US/10721839

Publication No. US20040086535A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 16

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-14

Query Match 100.0%; Score 66; DB 4; Length 16;

Best Local Similarity 100.0%; Pred. No. 0.00086;

Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 LRRIRKIHIIKK 14

Db 2 LRRIRKIHIIKK 15

RESULT 9

US-10-721-829-14

Sequence 14, Application US/10721829

Publication No. US20050113776A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-18

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 3
US-10-721-839-13
Sequence 13, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-13

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 4

US-10-721-839-18
Sequence 18, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:03505
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-18

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 5
US-10-721-829-13
Sequence 13, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:03505
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-13

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 53.6885 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-11
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLASTM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	14	4	US-10-060-102-13
2	66	100.0	14	4	US-10-060-102-18
3	66	100.0	14	4	US-10-721-839-13
4	66	100.0	14	4	US-10-721-839-18
5	66	100.0	14	5	US-10-721-829-13
6	66	100.0	14	5	US-10-721-829-18
7	66	100.0	16	4	US-10-060-102-14
8	66	100.0	16	4	US-10-721-839-14
9	66	100.0	16	5	US-10-721-829-14
10	66	100.0	18	3	US-09-840-009-2
11	66	100.0	18	3	US-09-840-009-9
12	66	100.0	18	3	US-09-840-009-16
13	66	100.0	18	3	US-09-840-009-23
14	66	100.0	18	3	US-09-840-009-30
15	66	100.0	18	4	US-10-060-102-9
16	66	100.0	18	4	US-10-060-102-12
17	66	100.0	18	4	US-10-721-839-9
18	66	100.0	18	4	US-10-721-839-12
19	66	100.0	18	5	US-10-721-829-9
20	66	100.0	18	5	US-10-721-829-12
21	66	100.0	29	4	US-10-060-102-8
22	66	100.0	29	4	US-10-721-839-8
23	66	100.0	29	5	US-10-721-829-8
24	64	97.0	14	4	US-10-060-102-19
25	64	97.0	14	4	US-10-060-102-20
26	64	97.0	14	4	US-10-721-839-19
27	64	97.0	14	4	US-10-721-839-20

28	64	97.0	14	5	US-10-721-829-19	Sec	p1
29	64	97.0	14	5	US-10-721-829-20	Sec	p1
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33	64	97.0	18	4	US-10-060-102-10	Sec	p1
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35	64	97.0	18	4	US-10-721-839-10	Sec	p1
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37	64	97.0	18	5	US-10-721-829-10	Sec	p1
38	64	97.0	18	5	US-10-721-829-11	Sec	p1
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41	61	92.4	18	3	US-09-840-009-11	Sec	p1
42	61	92.4	18	3	US-09-840-009-15	Sec	p1
43	61	92.4	18	3	US-09-840-009-18	Sec	p1
44	61	92.4	18	3	US-09-840-009-22	Sec	p1
45	61	92.4	18	3	US-09-840-009-25	Sec	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-13
; Sequence 13, Application US/10060102
; Publication No. US2003002829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOMA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-13
Query Match 100.0%; Score 66; DB 4; Length 14,
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0;
Oy 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14
RESULT 2
US-10-060-102-18
; Sequence 18, Application US/10060102
; Publication No. US2003002829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
```



```
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 LRRIRKIHIIKK 14
    |||||
Db 3 LRRIRKIHIIKK 16
```

```
RESULT 12
US-11-092-496-17
; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
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; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 LRRIRKIHIIKK 14
    |||||
Db 3 LRRIRKIHIIKK 16
```

```
RESULT 13
US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
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; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (10)-(10)
; OTHER INFORMATION: D-alanine
US-11-092-496-21
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```
Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 LRRIRKIHIIKK 14
```

```
Db 3 LRRIRKIHIIKK 16
    |||||
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```
RESULT 14
US-11-092-496-24
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; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 LRRIRKIHIIKK 14
    |||||
Db 3 LRRIRKIHIIKK 16
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```
RESULT 15
US-11-092-496-28
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; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (11)-(11)
; OTHER INFORMATION: D-alanine
US-11-092-496-28
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```
Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1 LRRIRKIHIIKK 14
    |||||
Db 3 LRRIRKIHIIKK 16
```

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Search completed: December 16, 2005, 03:10:07
Job time : 2.1897 secs
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Db 3 LRRIRKLIHIKK 16

RESULT 7
US-11-119-581-59

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; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59
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Query Match 93.9%; Score 62; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 5.2e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 8

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US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3
```

Query Match 92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 9

```
US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
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; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
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; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7
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Query Match 92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 10

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US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10
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Query Match 92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 11

```
US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
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; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 3
US-11-092-496-22
; Sequence 22, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (10)-(10)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 4
US-11-092-496-29
; Sequence 29, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (11)-(11)
; OTHER INFORMATION: D-isoleucine
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```

US-11-092-496-29

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 5
US-11-119-581-64
; Sequence 64, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Doretea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match      98.5%; Score 65; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 1.7e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 6
US-11-119-581-60
; Sequence 60, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Doretea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match      97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.4e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.11707 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-11
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_New*
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2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	18	7	US-11-092-496-8
2	66	100.0	18	7	US-11-092-496-15
3	66	100.0	18	7	US-11-092-496-22
4	66	100.0	18	7	US-11-092-496-29
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9	61	92.4	18	7	US-11-092-496-7
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12	61	92.4	18	7	US-11-092-496-17
13	61	92.4	18	7	US-11-092-496-21
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22	59	89.4	18	7	US-11-092-496-5
23	59	89.4	18	7	US-11-092-496-6
24	59	89.4	18	7	US-11-092-496-12
25	59	89.4	18	7	US-11-092-496-13

26	59	89.4	18	7	US-11-092-496-19	Sec	p1
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33	58	87.9	18	7	US-11-092-496-16	Sec	p1
34	58	87.9	18	7	US-11-092-496-23	Sec	p1
35	58	87.9	18	7	US-11-119-581-1	Sec	p1
36	58	87.9	18	7	US-11-119-581-5	Sec	p1
37	58	87.9	18	7	US-11-119-581-7	Sec	p1
38	58	87.9	18	7	US-11-119-581-10	Sec	p1
39	58	87.9	18	7	US-11-119-581-11	Sec	p1
40	58	87.9	18	7	US-11-119-581-12	Sec	p1
41	58	87.9	18	7	US-11-119-581-13	Sec	p1
42	58	87.9	18	7	US-11-119-581-14	Sec	p1
43	58	87.9	18	7	US-11-119-581-15	Sec	p1
44	58	87.9	18	7	US-11-119-581-16	Sec	p1
45	58	87.9	18	7	US-11-119-581-17	Sec	p1

ALIGNMENTS

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RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8
Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0;
Oy      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16
RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
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;
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

Query Match 90.9%; Score 60; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0035;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LRRIRKIIHIIKK 14
||| ||| ||| |||
Db 3 LRRISRKIIHIIKK 16

Search completed: December 16, 2005, 01:24:08
Job time : 15.71 secs

APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-22

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRIIRKIHIIKK 14
Db 3 LRIIRKIHIIKK 16

RESULT 12

US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRIIRKIHIIKK 14
Db 3 LRIIRKIHIIKK 16

RESULT 13

US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-29

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRIIRKIHIIKK 14
Db 3 LRIIRKIHIIKK 16

RESULT 14

US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 90.9%; Score 60; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0035;
Matches 13; Conservative 0; Mismatches 1; Indels 0;

Qy 1 LRIIRKIHIIKK 14
Db 3 LRIIRKIHIIKK 16

RESULT 15

US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

OY 1 LRRIRKTIHIKK 14
||| |||||
Db 3 LRRIRKTIHIKK 16

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LRRIRKTIHIKK 14
||| |||||
Db 3 LRRIRKTIHIKK 16

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LRRIRKTIHIKK 14
||| |||||
Db 3 LRRIRKTIHIKK 16

RESULT 9

US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;

Matches 13; Conservative 0; Mismatches 1; Indels 0;

OY 1 LRRIRKTIHIKK 14
||| |||||
Db 3 LRRIRKTIHIKK 16

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 92.4%; Score 61; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0025;

Matches 13; Conservative 0; Mismatches 1; Indels 0;

OY 1 LRRIRKTIHIKK 14
||| |||||
Db 3 LRRIRKTIHIKK 16

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.


```

? LENGTH: 18
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Synthetic antimicrobial peptide
? OTHER INFORMATION: D-Isoleucine
? OS-09-840-009-9

```

Query Match	100.0%;	Score 66;	DB 2;	Length 18;
Best Local Similarity	100.0%;	Pred. No. 0.00041;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	LRRIIRKIIHIKK	14
Db	3	LRRIIRKIIHIKK	16

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RESULT 3
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Marling, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ. ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
; US-09-840-009-16

```

Query Match	100.0%;	Score 66;	DB 2;	Length 18;
Best Local Similarity	100.0%;	Pred. No. 0.00041;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

```
Qy 1 LRRIIRKIHIKK 14
    |||||
Db 3 LRRIIRKIHIKK 16
```

```

RESULT 4
US-09-840-009-23
Sequence 23: Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian P.
TITLE OF INVENTION: NOVEL SPRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

```

OTHER INFORMATION: D-isoleucine
US-09-840-009-23

Query Match	100.0%;	Score 66;	DB 2;	Length 18;
Best Local Similarity	100.0%;	Pred. No. 0.00041;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	

```
QY      1 LRRIIRKIIHIKK 14
         |||||
Db      3 LRRIIRKIIHIKK 16
```

```

RESULT 5
US-09-840-009-30
Sequence 30. Application US/09840009
Patent No. 6493328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Marling, Alan F.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVIINSPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195NO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-isoleucine
US-09-840-009-30

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Query Match	100.0%;	Score 66;	DB 2;	Length 18;
Best Local Similarity	100.0%;	Pred. No. 0.00041;		
Matches 14; Conservative	0;	Mismatches 0;	Indels	0;

```
QY      1 LRRIRKIIHIKK 14
          |||||
Db      3 LRRIRKIIHIKK 16
```

RESULT 6
 US-09-840-009-4
 Sequence 4, Application US/09840009
 Patent No. 6493328
 GENERAL INFORMATION:
 APPLICANT: Lehner, Robert I.
 APPLICANT: Marling, Alan F.
 APPLICANT: Tack, Brian F.
 TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
 FILE REFERENCE: 06510-195MO
 CURRENT APPLICATION NUMBER: US/09/840,009
 CURRENT FILING DATE: 2001-04-19
 PRIOR APPLICATION NUMBER: US 09/606,858
 PRIOR FILING DATE: 2000-06-28
 NUMBER OF SEQ ID NOS: 37
 SOFTWARE: FASTSEQ For Windows Version 4.0
 SEQ ID NO 4
 LENGTH: 18
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-840-009-4

Query Match	92.4%	Score 61;	DB 2;	Length 18;
Best Local Similarity	92.9%	Pred. No. 0.0025;		
Matches	13;	Conservative	0;	Mismatches 1; Indels 0

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using SW model

Run on: December 16, 2005, 01:11:48 ; Search time 15.6573 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-12
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
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6: /cgn2_6/ptodata/1/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	18	2	US-09-840-009-2
2	66	100.0	18	2	US-09-840-009-9
3	66	100.0	18	2	US-09-840-009-16
4	66	100.0	18	2	US-09-840-009-23
5	66	100.0	18	2	US-09-840-009-30
6	61	92.4	18	2	US-09-840-009-4
7	61	92.4	18	2	US-09-840-009-8
8	61	92.4	18	2	US-09-840-009-11
9	61	92.4	18	2	US-09-840-009-15
10	61	92.4	18	2	US-09-840-009-18
11	61	92.4	18	2	US-09-840-009-22
12	61	92.4	18	2	US-09-840-009-25
13	61	92.4	18	2	US-09-840-009-29
14	60	90.9	18	2	US-09-840-009-5
15	60	90.9	18	2	US-09-840-009-12
16	60	90.9	18	2	US-09-840-009-19
17	60	90.9	18	2	US-09-840-009-26
18	59	89.4	18	2	US-09-840-009-6
19	59	89.4	18	2	US-09-840-009-7
20	59	89.4	18	2	US-09-840-009-13
21	59	89.4	18	2	US-09-840-009-14
22	59	89.4	18	2	US-09-840-009-22
23	59	89.4	18	2	US-09-840-009-21
24	59	89.4	18	2	US-09-840-009-27
25	59	89.4	18	2	US-09-840-009-28
26	58	87.9	18	2	US-09-840-009-3
27	58	87.9	18	2	US-09-840-009-10

28	58	87.9	18	2	US-09-840-009-17	Sec
29	58	87.9	18	2	US-09-840-009-24	Sec
30	58	87.9	18	2	US-09-840-009-31	Sec
31	58	87.9	18	2	US-09-840-009-34	Sec
32	58	87.9	18	2	US-09-840-009-35	Sec
33	50	75.8	18	2	US-09-840-009-32	Sec
34	50	75.8	18	2	US-09-840-009-33	Sec
35	50	75.8	18	2	US-09-840-009-36	Sec
36	50	75.8	18	2	US-09-840-009-37	Sec
37	46	69.7	18	2	US-09-840-009-1	Sec
38	42	63.6	160	2	US-09-917-340-36	Sec
39	41	62.1	337	2	US-09-538-092-38	Sec
40	40	60.6	24	2	US-09-785-059B-5	Sec
41	40	60.6	24	2	US-10-079-075-5	Sec
42	40	60.6	36	2	US-09-785-059B-6	Sec
43	40	60.6	36	2	US-10-079-075-6	Sec
44	40	60.6	42	2	US-09-785-059B-7	Sec
45	40	60.6	42	2	US-10-079-075-7	Sec

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          100.0%; Score 66; DB 2; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00041;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

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```

Query Match          100.0%; Score 66; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

Qy 1 LRRIRKIIHIKK 14
    |||||
Db 3 LRRIRKIIHIKK 16

```

```

RESULT 14
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-30

```

```

Query Match          100.0%; Score 66; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 LRRIRKIIHIKK 14
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Db 3 LRRIRKIIHIKK 16

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RESULT 15
US-10-060-102-9
; Sequence 9, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30

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; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYR
; OTHER INFORMATION: Peptide
US-10-060-102-9

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Query Match          100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00097;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

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Qy 1 LRRIRKIIHIKK 14
    |||||
Db 3 LRRIRKIIHIKK 16

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Search completed: December 16, 2005, 03:09:13
Job time : 54.6885 secs

Query Match	100.0%;	Score 66;	DB 5;	Length 14;
Best Local Similarity	100.0%;	Pred. No. 0.00076;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Db	1	LRRIIRKIIHIIKK	14

RESULT 6
US-10-721-829-18

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THYMUS DEFENSINS AND MAMMAL CATHELICIDINS

TITLE OF INVENTION: CATELILICIDINS

Query Match	100.0%	Score 66	DB 5	Length 14
Best Local Similarity	100.0%	Pred. NC	0.00076	
Matches 14	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	1	LRRIIRKIIHIIKK	14
Db	1	LRRIIRKIIHIIKK	14

RESULT 7
US-10-060-102-14

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN

1 TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
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; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 14
; LENGTH: 16
; TYPE: DDT

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ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION:	Description of Artificial Sequence:	Syn
OTHER INFORMATION:	Peptide	

Query Match	100.0%	Score 66	DB 4	length 16
Best Local Similarity	100.0%	Pred. No.	0	00086
Matches	14	Conservative	0	Mismatches
			0	Indels
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OY      1 LRRIIRKIIHIKK 14
         |||||
Db       2 LRRIIRKIIHIKK 15
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RESULT 8
US-10-721-839-14

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
ENTER ON TUESDAY, NOVEMBER 11, 1997

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; TITLE OF INVENTION: CATHELICIDINS
 ; FILE REFERENCE: TOWA.035115

Query Match	100.0%	Score 66	DB 4	length 16
Best Local Similarity	100.0%	Pred. No. 0.00086		
Matches 14, Conservative	0	Mismatches	0	Indels 0

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Db	2	L R R I R K I I H I K K	15

RESULT 9
US-10-721-829-14

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TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-18

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 3
US-10-721-839-13

Sequence 13, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-13

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 4

US-10-721-839-18
Sequence 18, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

3 AND MAMMALI

US-10-721-839-18
Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14

RESULT 5

US-10-721-829-13
Sequence 13, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

3 AND MAMMALI

US-10-721-829-13
Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00076;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 53.6885 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-12
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	66	100.0	14 4 US-10-060-102-13	Sequence 13, Appl
2	66	100.0	14 4 US-10-060-102-18	Sequence 18, Appl
3	66	100.0	14 4 US-10-721-839-13	Sequence 13, Appl
4	66	100.0	14 4 US-10-721-839-18	Sequence 18, Appl
5	66	100.0	14 5 US-10-721-839-13	Sequence 13, Appl
6	66	100.0	14 5 US-10-721-839-18	Sequence 18, Appl
7	66	100.0	16 4 US-10-060-102-14	Sequence 14, Appl
8	66	100.0	16 4 US-10-721-839-14	Sequence 14, Appl
9	66	100.0	16 5 US-10-721-839-14	Sequence 14, Appl
10	66	100.0	18 3 US-09-840-009-2	Sequence 2, Appl
11	66	100.0	18 3 US-09-840-009-9	Sequence 9, Appl
12	66	100.0	18 3 US-09-840-009-16	Sequence 16, Appl
13	66	100.0	18 3 US-09-840-009-23	Sequence 23, Appl
14	66	100.0	18 3 US-09-840-009-30	Sequence 30, Appl
15	66	100.0	18 4 US-10-060-102-9	Sequence 9, Appl
16	66	100.0	18 4 US-10-060-102-12	Sequence 12, Appl
17	66	100.0	18 4 US-10-721-839-9	Sequence 9, Appl
18	66	100.0	18 4 US-10-721-839-12	Sequence 12, Appl
19	66	100.0	18 5 US-10-721-839-9	Sequence 9, Appl
20	66	100.0	18 5 US-10-721-839-12	Sequence 12, Appl
21	66	100.0	29 4 US-10-060-102-8	Sequence 8, Appl
22	66	100.0	29 4 US-10-721-839-8	Sequence 8, Appl
23	66	100.0	29 5 US-10-721-839-8	Sequence 8, Appl
24	66	97.0	14 4 US-10-060-102-19	Sequence 19, Appl
25	66	97.0	14 4 US-10-060-102-20	Sequence 20, Appl
26	66	97.0	14 4 US-10-721-839-19	Sequence 19, Appl
27	66	97.0	14 4 US-10-721-839-20	Sequence 20, Appl

28	64	97.0	14 5 US-10-721-829-19	Seq	p1
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40	61	92.4	18 3 US-09-840-009-8	Seq	p1
41	61	92.4	18 3 US-09-840-009-11	Seq	p1
42	61	92.4	18 3 US-09-840-009-15	Seq	p1
43	61	92.4	18 3 US-09-840-009-18	Seq	p1
44	61	92.4	18 3 US-09-840-009-22	Seq	p1
45	61	92.4	18 3 US-09-840-009-25	Seq	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-13
; Sequence 13, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TR
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYN
; OTHER INFORMATION: Peptide
US-10-060-102-13
Query Match 100.0%; Score 66; DB 4; Length 14,
Best Local Similarity 100.0%; Pred. No. 0.00076; Indels
Matches 14; Conservative 0; Mismatches 0; Indels 0;
QY 1 LRRIRKIHIIKK 14
Db 1 LRRIRKIHIIKK 14
RESULT 2
US-10-060-102-18
; Sequence 18, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```



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FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)..(7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Oy 1 LRRIRKTIHIKK 14
    |||||
Db 3 LRRIRKTIHIKK 16
```

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RESULT 12
US-11-092-496-17
; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
```

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; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
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FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17
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```
Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
Oy 1 LRRIRKTIHIKK 14
    |||||
Db 3 LRRIRKTIHIKK 16
```

```
RESULT 13
US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
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```
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
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FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (10)..(10)
; OTHER INFORMATION: D-alanine
US-11-092-496-21
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Oy 1 LRRIRKTIHIKK 14
    |||||
```

```
Db 3 LRRIRKTIHIKK 16
    |||||
```

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RESULT 14
US-11-092-496-24
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; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
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FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Oy 1 LRRIRKTIHIKK 14
    |||||
Db 3 LRRIRKTIHIKK 16
```

```
RESULT 15
US-11-092-496-28
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; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
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FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (11)..(11)
; OTHER INFORMATION: D-alanine
US-11-092-496-28
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Query Match          92.4%; Score 61; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 7.6e-05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Oy 1 LRRIRKTIHIKK 14
    |||||
Db 3 LRRIRKTIHIKK 16
```

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Search completed: December 16, 2005, 03:10:08
Job time : 3.1897 secs
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; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1,1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 3
US-11-092-496-22
; Sequence 22, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (10)-(10)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1,1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 4
US-11-092-496-29
; Sequence 29, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (11)-(11)
; OTHER INFORMATION: D-isoleucine
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US-11-092-496-29

Query Match      100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1,1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 5
US-11-119-581-64
; Sequence 64, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorotea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match      98.5%; Score 65; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 1,7e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 6
US-11-119-581-60
; Sequence 60, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorotea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match      97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2,4e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY      1 LRRIRKIHIIKK 14
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.13707 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-12
Perfect score: 66
Sequence: 1 LRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_New:*
1: /cgn2_6/ptodata/2/pubpaa/US09_NEM_PUB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/US06_NEM_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEM_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEM_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEM_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEM_PUB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEM_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEM_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	18	7	US-11-092-496-8
2	66	100.0	18	7	US-11-092-496-15
3	66	100.0	18	7	US-11-092-496-22
4	66	100.0	18	7	US-11-092-496-29
5	65	98.5	18	7	US-11-119-581-64
6	64	97.0	18	7	US-11-119-581-60
7	62	93.9	18	7	US-11-119-581-59
8	61	92.4	18	7	US-11-092-496-3
9	61	92.4	18	7	US-11-092-496-7
10	61	92.4	18	7	US-11-092-496-10
11	61	92.4	18	7	US-11-092-496-14
12	61	92.4	18	7	US-11-092-496-17
13	61	92.4	18	7	US-11-092-496-21
14	61	92.4	18	7	US-11-092-496-24
15	61	92.4	18	7	US-11-092-496-28
16	61	92.4	18	7	US-11-119-581-61
17	61	92.4	18	7	US-11-119-581-62
18	60	90.9	18	7	US-11-092-496-4
19	60	90.9	18	7	US-11-092-496-11
20	60	90.9	18	7	US-11-092-496-18
21	60	90.9	18	7	US-11-092-496-25
22	59	89.4	18	7	US-11-092-496-5
23	59	89.4	18	7	US-11-092-496-6
24	59	89.4	18	7	US-11-092-496-12
25	59	89.4	18	7	US-11-092-496-13

26	59	89.4	18	7	US-11-092-496-19	Sec	p1
27	59	89.4	18	7	US-11-092-496-20	Sec	p1
28	59	89.4	18	7	US-11-092-496-26	Sec	p1
29	59	89.4	18	7	US-11-092-496-27	Sec	p1
30	59	89.4	18	7	US-11-119-581-63	Sec	p1
31	58	87.9	18	7	US-11-092-496-2	Sec	p1
32	58	87.9	18	7	US-11-092-496-9	Sec	p1
33	58	87.9	18	7	US-11-092-496-16	Sec	p1
34	58	87.9	18	7	US-11-092-496-23	Sec	p1
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36	58	87.9	18	7	US-11-119-581-5	Sec	p1
37	58	87.9	18	7	US-11-119-581-7	Sec	p1
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41	58	87.9	18	7	US-11-119-581-13	Sec	p1
42	58	87.9	18	7	US-11-119-581-14	Sec	p1
43	58	87.9	18	7	US-11-119-581-15	Sec	p1
44	58	87.9	18	7	US-11-119-581-16	Sec	p1
45	58	87.9	18	7	US-11-119-581-17	Sec	p1

ALIGNMENTS

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RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8
Query Match          100.0%; Score 66; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1,1e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

OY      1 LRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12
  
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Query Match      87.9%; Score 58; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0092;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
  
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QY      1 IRRIRKIIHIKK 14
         :||| |||||
Db      3 LRRISRKIIHIKK 16
  
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Search completed: December 16, 2005, 01:24:09
Job time : 16.71 secs
  
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APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-22

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 12

US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 13

US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-29

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 14

US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 87.9%; Score 58; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0092;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 15

US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 IRRIRKIHIIKK 14
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Db 3 LRRIRKIHIIKK 16

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

Query Match	89.4%;	Score 59;	DB 2;	Length 18
Best Local Similarity	85.7%;	Pred. No. 0.0064;		
Matches 12;	Conservative	1;	Mismatches	1; Indels

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 15.6573 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744B-13
Perfect score: 66
Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_AA:*
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4: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	64	97.0	18	2	US-09-840-009-9
3	64	97.0	18	2	US-09-840-009-16
4	64	97.0	18	2	US-09-840-009-23
5	64	97.0	18	2	US-09-840-009-30
6	59	89.4	18	2	US-09-840-009-4
7	59	89.4	18	2	US-09-840-009-8
8	59	89.4	18	2	US-09-840-009-11
9	59	89.4	18	2	US-09-840-009-15
10	59	89.4	18	2	US-09-840-009-18
11	59	89.4	18	2	US-09-840-009-22
12	59	89.4	18	2	US-09-840-009-25
13	59	89.4	18	2	US-09-840-009-29
14	58	87.9	18	2	US-09-840-009-5
15	58	87.9	18	2	US-09-840-009-12
16	58	87.9	18	2	US-09-840-009-19
17	58	87.9	18	2	US-09-840-009-26
18	57	86.4	18	2	US-09-840-009-6
19	57	86.4	18	2	US-09-840-009-7
20	57	86.4	18	2	US-09-840-009-13
21	57	86.4	18	2	US-09-840-009-14
22	57	86.4	18	2	US-09-840-009-20
23	57	86.4	18	2	US-09-840-009-21
24	57	86.4	18	2	US-09-840-009-27
25	57	86.4	18	2	US-09-840-009-28
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27	56	84.8	18	2	US-09-840-009-10

28	56	84.8	18	2	US-09-840-009-17	Se
29	56	84.8	18	2	US-09-840-009-24	Se
30	56	84.8	18	2	US-09-840-009-31	Se
31	56	84.8	18	2	US-09-840-009-34	Se
32	56	84.8	18	2	US-09-840-009-35	Se
33	48	72.7	18	2	US-09-840-009-32	Se
34	48	72.7	18	2	US-09-840-009-33	Se
35	48	72.7	18	2	US-09-840-009-36	Se
36	48	72.7	18	2	US-09-840-009-37	Se
37	44	66.7	18	2	US-09-840-009-1	Se
38	42	63.6	24	2	US-09-785-059B-5	Se
39	42	63.6	24	2	US-10-079-075-5	Se
40	42	63.6	36	2	US-09-785-059B-6	Se
41	42	63.6	36	2	US-10-079-075-6	Se
42	42	63.6	42	2	US-09-785-059B-7	Se
43	42	63.6	42	2	US-10-079-075-7	Se
44	42	63.6	48	2	US-09-785-059B-8	Se
45	42	63.6	48	2	US-10-079-075-8	Se

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match          97.0%  Score 64;  DB 2;  Length 18;
Best Local Similarity 92.9%  Pred. No. 0.0011;
Matches 13;  Conservative 1;  Mismatches 0;  Indels 0;

Cy      1 IRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

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Oy 1 IRRIRKIIHIKK 14
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Db 3 IRRIRKIIHIKK 16

RESULT 13

US-10-721-839-11
; Sequence 11, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 11

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Peptide

US-10-721-839-11

Query Match 100.0%; Score 66; DB 4; Length 18;

Best Local Similarity 100.0%; Pred. No. 0.00095;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IRRIRKIIHIKK 14

| | | | |

Db 3 IRRIRKIIHIKK 16

RESULT 14

US-10-721-829-10

; Sequence 10, Application US/10721829

; Publication No. US20050113776A1

; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 10

LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
; OTHER INFORMATION: Peptide
US-10-721-829-10

Query Match 100.0%; Score 66; DB 5; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00095;

Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIIHIKK 14
| | | | |

Db 3 IRRIRKIIHIKK 16

RESULT 15

US-10-721-829-11

; Sequence 11, Application US/10721829

; Publication No. US20050113776A1

; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 11

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: Sy

OTHER INFORMATION: Peptide

US-10-721-829-11

Query Match 100.0%; Score 66; DB 5; Length 18

Best Local Similarity 100.0%; Pred. No. 0.00095;

Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIIHIKK 14

| | | | |

Db 3 IRRIRKIIHIKK 16

Search completed: December 16, 2005, 03:09:13

Job time : 53.6885 secs

;; TITLE OF INVENTION: CATHELICIDINS
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721,829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060,102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO: 15
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: Peptide
US-10-721-829-15

Query Match 100.0%; Score 66; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.00084;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
|||
Db 2 IRRIRKIHIIKK 15

RESULT 10
US-10-060-102-10
; Sequence 10, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STABLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-060-102-10

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
|||
Db 3 IRRIRKIHIIKK 16

RESULT 11
US-10-060-102-11
; Sequence 11, Application US/10060102

;; Publication No. US20030022829A1
;; GENERAL INFORMATION:
;; APPLICANT: MAURY, WENDY
;; APPLICANT: STABLETON, JACK
;; APPLICANT: ROLLER, RICHARD
;; APPLICANT: STINSKI, MARK
;; APPLICANT: MCCRAY, PAUL B.
;; APPLICANT: TACK, BRIAN
;; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/060,102
;; CURRENT FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO: 11
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Syn
;; OTHER INFORMATION: Peptide
US-10-060-102-11

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIHIIKK 14
|||
Db 3 IRRIRKIHIIKK 16

RESULT 12
US-10-721-839-10
; Sequence 10, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STABLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-721-839-10

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Query Match 100.0%; Score 66; DB 5; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.00074;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
 DB 1 IRRIRKIHIIKK 14

RESULT 6
 US-10-721-829-20

; Sequence 20, Application US/10721829
 ; Publication No. US20050113776A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MAURY, WENDY
 ; APPLICANT: STAPLETON, JACK
 ; APPLICANT: ROLLER, RICHARD
 ; APPLICANT: STINSKI, MARK
 ; APPLICANT: MCCRAY, PAUL B.
 ; APPLICANT: TACK, BRIAN
 ; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 ; FILE REFERENCE: IOWA:035US
 ; CURRENT FILING DATE: 2003-11-25
 ; PRIOR APPLICATION NUMBER: US/10/060,102
 ; PRIOR FILING DATE: 2002-02-22
 ; PRIOR APPLICATION NUMBER: 60/309,368
 ; PRIOR FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: 60/265,270
 ; PRIOR FILING DATE: 2001-01-30
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 20
 ; LENGTH: 14
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ; OTHER INFORMATION: Peptide
 US-10-721-829-20

Query Match 100.0%; Score 66; DB 5; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.00074;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
 DB 1 IRRIRKIHIIKK 14

RESULT 7
 US-10-060-102-15

; Sequence 15, Application US/10060102
 ; Publication No. US20030022829A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MAURY, WENDY
 ; APPLICANT: STAPLETON, JACK
 ; APPLICANT: ROLLER, RICHARD
 ; APPLICANT: STINSKI, MARK
 ; APPLICANT: MCCRAY, PAUL B.
 ; APPLICANT: TACK, BRIAN
 ; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 ; FILE REFERENCE: IOWA:035US
 ; CURRENT FILING DATE: 2002-02-22
 ; PRIOR APPLICATION NUMBER: US/10/060,102
 ; PRIOR FILING DATE: 2002-02-22
 ; PRIOR APPLICATION NUMBER: 60/309,368
 ; PRIOR FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: 60/265,270
 ; PRIOR FILING DATE: 2001-01-30
 ; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 15
 ; LENGTH: 16
 ; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Sy
 ; OTHER INFORMATION: Peptide
 US-10-060-102-15

Query Match 100.0%; Score 66; DB 4; Length 16
 Best Local Similarity 100.0%; Pred. No. 0.00084;
 Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIIKK 14
 DB 2 IRRIRKIHIIKK 15

RESULT 8
 US-10-721-839-15

; Sequence 15, Application US/10721839
 ; Publication No. US20040086535A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MAURY, WENDY
 ; APPLICANT: STAPLETON, JACK
 ; APPLICANT: ROLLER, RICHARD
 ; APPLICANT: STINSKI, MARK
 ; APPLICANT: MCCRAY, PAUL B.
 ; APPLICANT: TACK, BRIAN
 ; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
 ; FILE REFERENCE: IOWA:035US
 ; CURRENT FILING DATE: 2003-11-25
 ; PRIOR APPLICATION NUMBER: US/10/060,102
 ; PRIOR FILING DATE: 2002-02-22
 ; PRIOR APPLICATION NUMBER: 60/309,368
 ; PRIOR FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: 60/265,270
 ; PRIOR FILING DATE: 2001-01-30
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 15
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Sy
 ; OTHER INFORMATION: Peptide
 US-10-721-839-15

Query Match 100.0%; Score 66; DB 4; Length 16
 Best Local Similarity 100.0%; Pred. No. 0.00084;
 Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIIKK 14
 DB 2 IRRIRKIHIIKK 15

RESULT 9
 US-10-721-829-15

; Sequence 15, Application US/10721829
 ; Publication No. US20050113776A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MAURY, WENDY
 ; APPLICANT: STAPLETON, JACK
 ; APPLICANT: ROLLER, RICHARD
 ; APPLICANT: STINSKI, MARK
 ; APPLICANT: MCCRAY, PAUL B.
 ; APPLICANT: TACK, BRIAN
 ; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-20

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IIRIRIKIHIIKK 14
Db 1 IIRIRIKIHIIKK 14

RESULT 3
US-10-721-839-19
Sequence 19, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-19

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IIRIRIKIHIIKK 14
Db 1 IIRIRIKIHIIKK 14

RESULT 4

US-10-721-839-20
Sequence 20, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-20

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

OY 1 IIRIRIKIHIIKK 14
Db 1 IIRIRIKIHIIKK 14

RESULT 5
US-10-721-829-19
Sequence 19, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-19

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 / Search time 53.6885 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-13
Perfect score: 66
Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	66	100.0	14	US-10-060-102-19	Sequence 19, Appl
2	66	100.0	14	US-10-060-102-20	Sequence 20, Appl
3	66	100.0	14	US-10-721-839-19	Sequence 19, Appl
4	66	100.0	14	US-10-721-839-20	Sequence 20, Appl
5	66	100.0	14	US-10-721-839-19	Sequence 19, Appl
6	66	100.0	14	US-10-721-839-20	Sequence 20, Appl
7	66	100.0	16	US-10-060-102-15	Sequence 15, Appl
8	66	100.0	16	US-10-721-839-15	Sequence 15, Appl
9	66	100.0	16	US-10-721-839-15	Sequence 15, Appl
10	66	100.0	18	US-10-060-102-10	Sequence 10, Appl
11	66	100.0	18	US-10-060-102-11	Sequence 11, Appl
12	66	100.0	18	US-10-721-839-10	Sequence 10, Appl
13	66	100.0	18	US-10-721-839-11	Sequence 11, Appl
14	66	100.0	18	US-10-721-839-10	Sequence 10, Appl
15	66	100.0	18	US-10-721-839-11	Sequence 11, Appl
16	66	97.0	14	US-10-060-102-13	Sequence 13, Appl
17	66	97.0	14	US-10-060-102-13	Sequence 13, Appl
18	66	97.0	14	US-10-721-839-13	Sequence 13, Appl
19	66	97.0	14	US-10-721-839-18	Sequence 18, Appl
20	66	97.0	14	US-10-721-839-13	Sequence 13, Appl
21	66	97.0	14	US-10-721-839-18	Sequence 18, Appl
22	66	97.0	16	US-10-060-102-14	Sequence 14, Appl
23	66	97.0	16	US-10-721-839-14	Sequence 14, Appl
24	66	97.0	16	US-10-721-839-14	Sequence 14, Appl
25	66	97.0	18	US-09-840-009-2	Sequence 2, Appl
26	66	97.0	18	US-09-840-009-9	Sequence 9, Appl
27	66	97.0	18	US-09-840-009-16	Sequence 16, Appl

28	64	97.0	18	3	US-09-840-009-23	Se	p1
29	64	97.0	18	3	US-09-840-009-30	Se	p1
30	64	97.0	18	4	US-10-060-102-9	Se	p1
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33	64	97.0	18	4	US-10-721-839-12	Se	p1
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36	64	97.0	29	4	US-10-060-102-8	Se	p1
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42	59	89.4	18	3	US-09-840-009-15	Se	p1
43	59	89.4	18	3	US-09-840-009-18	Se	p1
44	59	89.4	18	3	US-09-840-009-22	Se	p1
45	59	89.4	18	3	US-09-840-009-25	Se	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-19
; Sequence 19, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SY
; OTHER INFORMATION: Peptide
US-10-060-102-19
Query Match      100.0%; Score 66; DB 4; Length 14.
Best Local Similarity 100.0%; Pred. NO. 0.00074; Indels
Matches 14; Conservative 0; Mismatches 0;
QY      1 IRRIRKIHIIKK 14
Db      1 IRRIRKIHIIKK 14

RESULT 2
US-10-060-102-20
; Sequence 20, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

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FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 12
US-11-092-496-17
; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 13
US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (10)-(10)
; OTHER INFORMATION: D-alanine
US-11-092-496-21

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14

Db 3 LRRIRKIHIIKK 16

RESULT 14
US-11-092-496-24
; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 15
US-11-092-496-28
; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (11)-(11)
; OTHER INFORMATION: D-alanine
US-11-092-496-28

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

Search completed: December 16, 2005, 03:10:08
Job time : 2.1897 secs

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Db      3 LRRIRKIHIIKK 16
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RESULT 7
US-11-119-581-59
; Sequence 59, Application US/1119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorothea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match      90.9%; Score 60; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00013;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIIKK 14
:|||||:|||||
Db      3 LRRIRKIHIIKK 16

RESULT 8
US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match      89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIIKK 14
:|||||:|||||
Db      3 LRRIRKIHIIKK 16

RESULT 9
US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
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; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match      89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIIKK 14
:|||||:|||||
Db      3 LRRIRKIHIIKK 16

RESULT 10
US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match      89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIIKK 14
:|||||:|||||
Db      3 LRRIRKIHIIKK 16

RESULT 11
US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
```

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ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match      97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIHK 14
Db      3 LRRIRKIHIHK 16

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match      97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 IRRIRKIHIHK 14
Db      3 LRRIRKIHIHK 16

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-isoleucine
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US-11-092-496-29

Query Match      97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

Qy      1 IRRIRKIHIHK 14
Db      3 LRRIRKIHIHK 16

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match      95.5%; Score 63; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 4.2e-05;
Matches 12; Conservative 2; Mismatches 0; Indels 0;

Qy      1 IRRIRKIHIHK 14
Db      3 LRRIRKIHIHK 16

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match      93.9%; Score 62; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 6.1e-05;
Matches 12; Conservative 2; Mismatches 0; Indels 0;

Qy      1 IRRIRKIHIHK 14
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.13707 Seconds
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Title: US-09-642-744E-13

Perfect score: 66

Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications_AA_New:*
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2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
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6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
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8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	64	97.0	18	7	US-11-092-496-8
2	64	97.0	18	7	US-11-092-496-15
3	64	97.0	18	7	US-11-092-496-22
4	64	97.0	18	7	US-11-092-496-29
5	63	95.5	18	7	US-11-119-581-64
6	62	93.9	18	7	US-11-119-581-60
7	60	90.9	18	7	US-11-119-581-59
8	59	89.4	18	7	US-11-092-496-3
9	59	89.4	18	7	US-11-092-496-7
10	59	89.4	18	7	US-11-092-496-10
11	59	89.4	18	7	US-11-092-496-14
12	59	89.4	18	7	US-11-092-496-17
13	59	89.4	18	7	US-11-092-496-21
14	59	89.4	18	7	US-11-092-496-24
15	59	89.4	18	7	US-11-092-496-28
16	59	89.4	18	7	US-11-119-581-61
17	59	89.4	18	7	US-11-119-581-62
18	58	87.9	18	7	US-11-092-496-4
19	58	87.9	18	7	US-11-092-496-11
20	58	87.9	18	7	US-11-092-496-18
21	58	87.9	18	7	US-11-092-496-25
22	58	87.9	18	7	US-11-119-581-25
23	57	86.4	18	7	US-11-092-496-5
24	57	86.4	18	7	US-11-092-496-6
25	57	86.4	18	7	US-11-092-496-12

26	57	86.4	18	7	US-11-092-496-13	Se
27	57	86.4	18	7	US-11-092-496-19	Se
28	57	86.4	18	7	US-11-092-496-20	Se
29	57	86.4	18	7	US-11-092-496-26	Se
30	57	86.4	18	7	US-11-092-496-27	Se
31	57	86.4	18	7	US-11-119-581-63	Se
32	56	84.8	18	7	US-11-092-496-2	Se
33	56	84.8	18	7	US-11-092-496-9	Se
34	56	84.8	18	7	US-11-092-496-16	Se
35	56	84.8	18	7	US-11-092-496-23	Se
36	56	84.8	18	7	US-11-119-581-1	Se
37	56	84.8	18	7	US-11-119-581-5	Se
38	56	84.8	18	7	US-11-119-581-7	Se
39	56	84.8	18	7	US-11-119-581-10	Se
40	56	84.8	18	7	US-11-119-581-11	Se
41	56	84.8	18	7	US-11-119-581-12	Se
42	56	84.8	18	7	US-11-119-581-13	Se
43	56	84.8	18	7	US-11-119-581-14	Se
44	56	84.8	18	7	US-11-119-581-15	Se
45	56	84.8	18	7	US-11-119-581-16	Se

ALIGNMENTS

RESULT 1
US-11-092-496-8
Sequence 8, Appli US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (6)..(6)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-8
Query Match 97.0% Score 64; DB 7; Length 18;
Best Local Similarity 92.9% Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;
Oy 1 IRRIRKIHIIKK 14
Db 3 IRRIRKIHIIKK 16
RESULT 2
US-11-092-496-15
Sequence 15, Appli US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 15
LENGTH: 18
TYPE: PRT

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

Query Match 87.9%; Score 58; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0092;
Matches 12; Conservative 1; Mismatches 0; Gaps 0;
Indels 0;
Qy 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRISRKIIHIKK 16

Search completed: December 16, 2005, 01:24:09
Job time : 15.71 secs

APPLICANT: Maring, Alan J.
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
PRIOR FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-22

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-29

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 87.9%; Score 58; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0092;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 16

OY 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRIRKIIHIKK 16

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRIRKIIHIKK 16

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRIRKIIHIKK 16

RESULT 9

US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRIRKIIHIKK 16

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

OY 1 IRRIRKIIHIKK 14
:|||||
Db 3 LRRIRKIIHIKK 16

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-9

Query Match 97.0%; Score 64; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIKK 14
:|||||
Db 3 LRRIRKIHIKK 16

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 97.0%; Score 64; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIKK 14
:|||||
Db 3 LRRIRKIHIKK 16

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-isoleucine
US-09-840-009-23

Query Match 97.0%; Score 64; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIKK 14
:|||||
Db 3 LRRIRKIHIKK 16

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30

Query Match 97.0%; Score 64; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIKK 14
:|||||
Db 3 LRRIRKIHIKK 16

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 89.4%; Score 59; DB 2; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.0064;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 15.6573 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-14

Perfect score: 66

Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents: AA: *
1: /cgn2_6/ptodata/1/1aa/5.COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/6.COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/H.COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/RS.COMB.pep: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	64	97.0	18	2	US-09-840-009-2
2	64	97.0	18	2	US-09-840-009-9
3	64	97.0	18	2	US-09-840-009-16
4	64	97.0	18	2	US-09-840-009-23
5	64	97.0	18	2	US-09-840-009-30
6	59	89.4	18	2	US-09-840-009-4
7	59	89.4	18	2	US-09-840-009-8
8	59	89.4	18	2	US-09-840-009-11
9	59	89.4	18	2	US-09-840-009-15
10	59	89.4	18	2	US-09-840-009-18
11	59	89.4	18	2	US-09-840-009-22
12	59	89.4	18	2	US-09-840-009-25
13	59	89.4	18	2	US-09-840-009-29
14	58	87.9	18	2	US-09-840-009-5
15	58	87.9	18	2	US-09-840-009-12
16	58	87.9	18	2	US-09-840-009-19
17	58	87.9	18	2	US-09-840-009-26
18	57	86.4	18	2	US-09-840-009-6
19	57	86.4	18	2	US-09-840-009-7
20	57	86.4	18	2	US-09-840-009-13
21	57	86.4	18	2	US-09-840-009-14
22	57	86.4	18	2	US-09-840-009-20
23	57	86.4	18	2	US-09-840-009-21
24	57	86.4	18	2	US-09-840-009-27
25	57	86.4	18	2	US-09-840-009-28
26	56	84.8	18	2	US-09-840-009-3
27	56	84.8	18	2	US-09-840-009-10

28	56	84.8	18	2	US-09-840-009-17	Seq	p1
29	56	84.8	18	2	US-09-840-009-24	Seq	p1
30	56	84.8	18	2	US-09-840-009-31	Seq	p1
31	56	84.8	18	2	US-09-840-009-34	Seq	p1
32	56	84.8	18	2	US-09-840-009-35	Seq	p1
33	48	72.7	18	2	US-09-840-009-32	Seq	p1
34	48	72.7	18	2	US-09-840-009-33	Seq	p1
35	48	72.7	18	2	US-09-840-009-36	Seq	p1
36	48	72.7	18	2	US-09-840-009-37	Seq	p1
37	44	66.7	18	2	US-09-840-009-1	Seq	p1
38	42	63.6	24	2	US-09-785-059B-5	Seq	p1
39	42	63.6	24	2	US-10-079-075-5	Seq	p1
40	42	63.6	36	2	US-09-785-059B-6	Seq	p1
41	42	63.6	36	2	US-10-079-075-6	Seq	p1
42	42	63.6	42	2	US-09-785-059B-7	Seq	p1
43	42	63.6	42	2	US-10-079-075-7	Seq	p1
44	42	63.6	48	2	US-09-785-059B-8	Seq	p1
45	42	63.6	48	2	US-10-079-075-8	Seq	p1

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match      97.0%; Score 64; DB 2; Length 18;
Best Local Similarity 92.9%; Pred. No. 0.0011;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

QY      1 IRRIRKIHIIKK 14
Db      3 LRRIRKIHIIKK 16

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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Oy 1 IRRIRKIIHIKK 14
Db 3 IRRIRKIIHIKK 16

RESULT 13

US-10-721-839-11
Sequence 11, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT APPLICATION NUMBER: US/10/721,839

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 11

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Peptide

US-10-721-839-11

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IRRIRKIIHIKK 14
Db 3 IRRIRKIIHIKK 16

RESULT 14

US-10-721-829-10
Sequence 10, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT APPLICATION NUMBER: US/10/721,829

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 10

LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-721-829-10

Query Match 100.0%; Score 66; DB 5; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIIHIKK 14
Db 3 IRRIRKIIHIKK 16

RESULT 15

US-10-721-829-11
Sequence 11, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH

FILE REFERENCE: IOWA:035US

CURRENT APPLICATION NUMBER: US/10/721,829

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 11

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: Sy

OTHER INFORMATION: Peptide

US-10-721-829-11

Query Match 100.0%; Score 66; DB 5; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIIHIKK 14
Db 3 IRRIRKIIHIKK 16

Search completed: December 16, 2005, 03:09:13
Job time : 53.6885 secs

;; TITLE OF INVENTION: CATHELCIDINS
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721.829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060.102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 15
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: Peptide
US-10-721-829-15

Query Match 100.0%; Score 66; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.00084;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
Db 2 IRRIRKIHIIKK 15

RESULT 10
US-10-060-102-10
; Sequence 10, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; TITLE OF INVENTION: CATHELCIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060.102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-060-102-10

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
Db 3 IRRIRKIHIIKK 16

RESULT 11
US-10-060-102-11
; Sequence 11, Application US/10060102

;; Publication No. US20030022829A1
;; GENERAL INFORMATION:
;; APPLICANT: MAURY, WENDY
;; APPLICANT: STAPLETON, JACK
;; APPLICANT: ROLLER, RICHARD
;; APPLICANT: STINSKI, MARK
;; APPLICANT: MCCRAY, PAUL B.
;; APPLICANT: TACK, BRIAN
;; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
;; TITLE OF INVENTION: CATHELCIDINS
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/060.102
;; CURRENT FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 11
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Syn
;; OTHER INFORMATION: Peptide
US-10-060-102-11

Query Match 100.0%; Score 66; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIIKK 14
Db 3 IRRIRKIHIIKK 16

RESULT 12
US-10-721-839-10
; Sequence 10, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELCIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721.839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060.102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-721-839-10

Query Match 100.0%; Score 66; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.00095;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Query Match 100.0%; Score 66; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IRRIRKIHIIKK 14
Db 1 IRRIRKIHIIKK 14

RESULT 6
US-10-721-829-20
; Sequence 20, Application US/10721829
; Publication No. US20050113776A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

; FILE REFERENCE: IOWA:035US

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; PRIOR FILING DATE: 2001-01-30

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 20

; LENGTH: 14

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: Peptide

US-10-721-829-20

Query Match 100.0%; Score 66; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IRRIRKIHIIKK 14
Db 1 IRRIRKIHIIKK 14

RESULT 7
US-10-060-102-15
; Sequence 15, Application US/10060102
; Publication No. US20030022829A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

; FILE REFERENCE: IOWA:035US

; CURRENT FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; PRIOR FILING DATE: 2001-01-30

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 15

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Sy

; OTHER INFORMATION: Peptide

US-10-060-102-15

Query Match 100.0%; Score 66; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.00084;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 IRRIRKIHIIKK 14
Db 2 IRRIRKIHIIKK 15

RESULT 8
US-10-721-839-15

; Sequence 15, Application US/10721839
; Publication No. US20040086535A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

; FILE REFERENCE: IOWA:035US

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; PRIOR FILING DATE: 2001-01-30

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 15

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Sy

; OTHER INFORMATION: Peptide

US-10-721-839-15

Query Match 100.0%; Score 66; DB 4; Length 16
Best Local Similarity 100.0%; Pred. No. 0.00084;

Matches 14; Conservative 0; Mismatches 0; Indels 0;

Qy 1 IRRIRKIHIIKK 14
Db 2 IRRIRKIHIIKK 15

RESULT 9
US-10-721-829-15

; Sequence 15, Application US/10721829
; Publication No. US20050113776A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

; FILE REFERENCE: IOWA:035US

; CURRENT FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; PRIOR FILING DATE: 2001-01-30

; NUMBER OF SEQ ID NOS: 32

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA.03505
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-20

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
DB 1 IRRIRKIHIIKK 14

RESULT 3

US-10-721-839-19
Sequence 19, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA.03505
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-19

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
DB 1 IRRIRKIHIIKK 14

RESULT 4

US-10-721-839-20
Sequence 20, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA.03505
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-20

Query Match 100.0%; Score 66; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

QY 1 IRRIRKIHIIKK 14
DB 1 IRRIRKIHIIKK 14

RESULT 5

US-10-721-829-19
Sequence 19, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STABLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE OF INVENTION: CATHELICIDINS
FILE REFERENCE: IOWA.03505
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 19
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-19

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 53.6885 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-14
Perfect score: 66
Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBSCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBSCOMB.pep.*
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4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBSCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBSCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	66	100.0	14	4 US-10-060-102-19	Sequence 19, Appl
2	66	100.0	14	4 US-10-060-102-20	Sequence 20, Appl
3	66	100.0	14	4 US-10-721-839-19	Sequence 19, Appl
4	66	100.0	14	4 US-10-721-839-20	Sequence 20, Appl
5	66	100.0	14	5 US-10-721-829-19	Sequence 19, Appl
6	66	100.0	14	5 US-10-721-829-20	Sequence 20, Appl
7	66	100.0	16	4 US-10-060-102-15	Sequence 15, Appl
8	66	100.0	16	4 US-10-721-839-15	Sequence 15, Appl
9	66	100.0	16	5 US-10-721-829-15	Sequence 15, Appl
10	66	100.0	18	4 US-10-060-102-10	Sequence 10, Appl
11	66	100.0	18	4 US-10-060-102-11	Sequence 11, Appl
12	66	100.0	18	4 US-10-721-839-10	Sequence 10, Appl
13	66	100.0	18	4 US-10-721-839-11	Sequence 11, Appl
14	66	100.0	18	5 US-10-721-829-10	Sequence 10, Appl
15	66	100.0	18	5 US-10-721-829-11	Sequence 11, Appl
16	64	97.0	14	4 US-10-060-102-13	Sequence 13, Appl
17	64	97.0	14	4 US-10-060-102-18	Sequence 18, Appl
18	64	97.0	14	4 US-10-721-839-13	Sequence 13, Appl
19	64	97.0	14	4 US-10-721-839-18	Sequence 18, Appl
20	64	97.0	14	5 US-10-721-829-18	Sequence 18, Appl
21	64	97.0	14	5 US-10-721-829-19	Sequence 19, Appl
22	64	97.0	16	4 US-10-060-102-14	Sequence 14, Appl
23	64	97.0	16	4 US-10-721-839-14	Sequence 14, Appl
24	64	97.0	16	5 US-10-721-829-14	Sequence 14, Appl
25	64	97.0	18	3 US-09-840-009-2	Sequence 2, Appl
26	64	97.0	18	3 US-09-840-009-9	Sequence 9, Appl
27	64	97.0	18	3 US-09-840-009-16	Sequence 16, Appl

28	64	97.0	18	3 US-09-840-009-23	Se	p1
29	64	97.0	18	3 US-09-840-009-30	Se	p1
30	64	97.0	18	4 US-10-060-102-9	Se	p1
31	64	97.0	18	4 US-10-060-102-12	Se	p1
32	64	97.0	18	4 US-10-721-839-9	Se	p1
33	64	97.0	18	4 US-10-721-839-12	Se	p1
34	64	97.0	18	5 US-10-721-829-9	Se	p1
35	64	97.0	18	5 US-10-721-829-12	Se	p1
36	64	97.0	29	4 US-10-060-102-8	Se	p1
37	64	97.0	29	4 US-10-721-839-8	Se	p1
38	64	97.0	29	5 US-10-721-829-8	Se	p1
39	59	89.4	18	3 US-09-840-009-4	Se	p1
40	59	89.4	18	3 US-09-840-009-8	Se	p1
41	59	89.4	18	3 US-09-840-009-11	Se	p1
42	59	89.4	18	3 US-09-840-009-15	Se	p1
43	59	89.4	18	3 US-09-840-009-18	Se	p1
44	59	89.4	18	3 US-09-840-009-22	Se	p1
45	59	89.4	18	3 US-09-840-009-25	Se	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-19
; Sequence 19, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE 1
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-19
Query Match 100.0%; Score 66; DB 4; Length 14.
Best Local Similarity 100.0%; Pred. No. 0.00074;
Matches 14; Conservative 0; Mismatches 0; Indels 0;

Oy 1 IRRIRKIHIIKK 14
Db 1 IRRIRKIHIIKK 14

RESULT 2
US-10-060-102-20
; Sequence 20, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
```


FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 12
US-11-092-496-17
Sequence 17, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 13
US-11-092-496-21
Sequence 21, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-alanine
US-11-092-496-21

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14

Db 3 LRRIRKIHIIKK 16

RESULT 14
US-11-092-496-24
Sequence 24, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 15
US-11-092-496-28
Sequence 28, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-alanine
US-11-092-496-28

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

Search completed: December 16, 2005, 03:10:08
Job time : 2.1897 secs

Db 3 LRRIRKLIHIKK 16

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Doreea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 90.9%; Score 60; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00013;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 89.4%; Score 59; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 0.00019;
Matches 12; Conservative 1; Mismatches 1; Indels 0;

Qy 1 LRRIRKLIHIKK 14
Db 3 LRRIRKLIHIKK 16

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

ORGANISM: Artificial sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE: NAME/KEY: MISC FEATURE
LOCATION: (7)-(7)
OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match 97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)-(10)
OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match 97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)-(11)
OTHER INFORMATION: D-isoleucine
US-11-092-496-29

US-11-092-496-29

Query Match 97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;

OY 1 IRRIRKIHIIKK 14
:|||||
Db 3 LRRIRKIHIIKK 16

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 95.5%; Score 63; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 4.2e-05;
Matches 12; Conservative 2; Mismatches 0; Indels 0;

OY 1 IRRIRKIHIIKK 14
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Db 3 LRRIRKIHIIKK 16

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 93.9%; Score 62; DB 7; Length 18;
Best Local Similarity 85.7%; Pred. No. 6.1e-05;
Matches 12; Conservative 2; Mismatches 0; Indels 0;

OY 1 IRRIRKIHIIKK 14

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.13707 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-14

Perfect score: 66

Sequence: 1 IRRIRKIHIIKK 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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7: /cgn2_6/ptodata/2/pubpa/US11_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	64	97.0	18	7	US-11-092-496-15
3	64	97.0	18	7	US-11-092-496-22
4	64	97.0	18	7	US-11-092-496-29
5	63	95.5	18	7	US-11-119-581-64
6	62	93.9	18	7	US-11-119-581-60
7	60	90.9	18	7	US-11-119-581-59
8	59	89.4	18	7	US-11-092-496-3
9	59	89.4	18	7	US-11-092-496-7
10	59	89.4	18	7	US-11-092-496-10
11	59	89.4	18	7	US-11-092-496-14
12	59	89.4	18	7	US-11-092-496-17
13	59	89.4	18	7	US-11-092-496-21
14	59	89.4	18	7	US-11-092-496-24
15	59	89.4	18	7	US-11-092-496-28
16	59	89.4	18	7	US-11-119-581-61
17	59	89.4	18	7	US-11-119-581-62
18	58	87.9	18	7	US-11-092-496-4
19	58	87.9	18	7	US-11-092-496-11
20	58	87.9	18	7	US-11-092-496-18
21	58	87.9	18	7	US-11-092-496-25
22	58	87.9	18	7	US-11-119-581-25
23	57	86.4	18	7	US-11-092-496-5
24	57	86.4	18	7	US-11-092-496-6
25	57	86.4	18	7	US-11-092-496-12

26	57	86.4	18	7	US-11-092-496-13	Seq
27	57	86.4	18	7	US-11-092-496-19	Seq
28	57	86.4	18	7	US-11-092-496-20	Seq
29	57	86.4	18	7	US-11-092-496-26	Seq
30	57	86.4	18	7	US-11-092-496-27	Seq
31	57	86.4	18	7	US-11-119-581-63	Seq
32	56	84.8	18	7	US-11-092-496-2	Seq
33	56	84.8	18	7	US-11-092-496-9	Seq
34	56	84.8	18	7	US-11-092-496-16	Seq
35	56	84.8	18	7	US-11-092-496-23	Seq
36	56	84.8	18	7	US-11-119-581-1	Seq
37	56	84.8	18	7	US-11-119-581-5	Seq
38	56	84.8	18	7	US-11-119-581-7	Seq
39	56	84.8	18	7	US-11-119-581-10	Seq
40	56	84.8	18	7	US-11-119-581-11	Seq
41	56	84.8	18	7	US-11-119-581-12	Seq
42	56	84.8	18	7	US-11-119-581-13	Seq
43	56	84.8	18	7	US-11-119-581-14	Seq
44	56	84.8	18	7	US-11-119-581-15	Seq
45	56	84.8	18	7	US-11-119-581-16	Seq

ALIGNMENTS

RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8
Query Match 97.0%; Score 64; DB 7; Length 18;
Best Local Similarity 92.9%; Pred. No. 2.9e-05;
Matches 13; Conservative 1; Mismatches 0; Indels 0;
Cy 1 IRRIRKIHIIKK 14
DB 3 LRRIRKIHIIKK 16
RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
us-09-640-009-12

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Query Match          90.2%; Score 55; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.011;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LRRIRKIIIRIK 13
      |||||
Db       3 LRRISRKIIIRIK 15

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Search completed: December 16, 2005, 01:24:09
 Job time : 14.5916 secs

QY 1 LRRIRKIHIIK 13
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DB 3 LRRIRKIHIIK 15

RESULT 7
US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 91.8%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0075;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIK 13
||| |||||
DB 3 LRRIRKIHIIK 15

RESULT 8
US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 91.8%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0075;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LRRIRKIHIIK 13
||| |||||
DB 3 LRRIRKIHIIK 15

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 91.8%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0075;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKIHIIK 13
||| |||||
DB 3 LRRIRKIHIIK 15

RESULT 10
US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 91.8%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0075;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

QY 1 LRRIRKIHIIK 13
||| |||||
DB 3 LRRIRKIHIIK 15

RESULT 11
US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-9

Query Match 100.0%; Score 61; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRLRIKRIHIK 13
DB 3 LRLRIKRIHIK 15

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 100.0%; Score 61; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRLRIKRIHIK 13
DB 3 LRLRIKRIHIK 15

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 61; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRLRIKRIHIK 13
DB 3 LRLRIKRIHIK 15

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30

Query Match 100.0%; Score 61; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRLRIKRIHIK 13
DB 3 LRLRIKRIHIK 15

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840.009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 91.8%; Score 56; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 0.0075;
Matches 12; Conservative 0; Mismatches 1; Indels 0;

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Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 14.5389 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-15
Perfect score: 61
Sequence: 1 LRRIRKIHIIK 13

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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4	61	100.0	18	2	US-09-840-009-30
5	61	100.0	18	2	US-09-840-009-4
6	56	91.8	18	2	US-09-840-009-8
7	56	91.8	18	2	US-09-840-009-11
8	56	91.8	18	2	US-09-840-009-15
9	56	91.8	18	2	US-09-840-009-18
10	56	91.8	18	2	US-09-840-009-22
11	56	91.8	18	2	US-09-840-009-25
12	56	91.8	18	2	US-09-840-009-29
13	55	90.2	18	2	US-09-840-009-5
14	55	90.2	18	2	US-09-840-009-12
15	55	90.2	18	2	US-09-840-009-19
16	55	90.2	18	2	US-09-840-009-26
17	55	90.2	18	2	US-09-840-009-6
18	54	88.5	18	2	US-09-840-009-7
19	54	88.5	18	2	US-09-840-009-13
20	54	88.5	18	2	US-09-840-009-14
21	54	88.5	18	2	US-09-840-009-20
22	54	88.5	18	2	US-09-840-009-21
23	54	88.5	18	2	US-09-840-009-27
24	54	88.5	18	2	US-09-840-009-28
25	53	86.9	18	2	US-09-840-009-3
26	53	86.9	18	2	US-09-840-009-10
27	53	86.9	18	2	US-09-840-009-10

28	53	86.9	18	2	US-09-840-009-17	Se	p1
29	53	86.9	18	2	US-09-840-009-24	Se	p1
30	53	86.9	18	2	US-09-840-009-31	Se	p1
31	53	86.9	18	2	US-09-840-009-34	Se	p1
32	53	86.9	18	2	US-09-840-009-35	Se	p1
33	45	73.8	18	2	US-09-840-009-32	Se	p1
34	45	73.8	18	2	US-09-840-009-33	Se	p1
35	45	73.8	18	2	US-09-840-009-36	Se	p1
36	45	73.8	18	2	US-09-840-009-37	Se	p1
37	41	67.2	18	2	US-09-840-009-1	Se	p1
38	39	63.9	391	2	US-09-134-001C-5234	Se	AP
39	38	62.3	24	2	US-09-785-059B-5	Se	p1
40	38	62.3	24	2	US-10-079-075-5	Se	p1
41	38	62.3	36	2	US-09-785-059B-6	Se	p1
42	38	62.3	36	2	US-10-079-075-6	Se	p1
43	38	62.3	42	2	US-09-785-059B-7	Se	p1
44	38	62.3	42	2	US-10-079-075-7	Se	p1
45	38	62.3	48	2	US-09-785-059B-8	Se	p1

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match      100.0%; Score 61; DB 2; Length 18
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Cy      1 LRRIRKIHIIK 13
Db      3 LRRIRKIHIIK 15

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/840, 009
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 61; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRIIRKIHIHK 13
Db 3 LRIIRKIHIHK 15

RESULT 14
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. US20020082195A1
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Marling, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195W0
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-30

Query Match 100.0%; Score 61; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LRIIRKIHIHK 13
Db 3 LRIIRKIHIHK 15

RESULT 15
US-10-060-102-9
Sequence 9, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTI-VIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
TITLE OF INVENTION: CATHELCIDINS
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
OTHER INFORMATION: Peptide
US-10-060-102-9

Query Match 100.0%; Score 61; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

Qy 1 LRIIRKIHIHK 13
Db 3 LRIIRKIHIHK 15

Search completed: December 16, 2005, 03:09:13
Job time : 49.8536 secs

;; TITLE OF INVENTION: CATECHOLICIDINS
;; FILE REFERENCE: IOWA.035US
;; CURRENT APPLICATION NUMBER: US/10/721.829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060.102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 14
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: Peptide
US-10-721-829-14

Query Match 100.0%; Score 61; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIK 13
Db 2 LRRIRKIHIIK 14

RESULT 10
US-09-840-009-2
;; Sequence 2, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840.009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 2
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match 100.0%; Score 61; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LRRIRKIHIIK 13
Db 3 LRRIRKIHIIK 15

RESULT 11
US-09-840-009-9
;; Sequence 9, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Maring, Alan J.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO

;; CURRENT APPLICATION NUMBER: US/09/840.009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 9
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
;; OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 61; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRRIRKIHIIK 13
Db 3 LRRIRKIHIIK 15

RESULT 12
US-09-840-009-16
;; Sequence 16, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Maring, Alan J.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840.009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 16
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic antimicrobial peptide
;; OTHER INFORMATION: D-Isoleucine
US-09-840-009-16

Query Match 100.0%; Score 61; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

OY 1 LRRIRKIHIIK 13
Db 3 LRRIRKIHIIK 15

RESULT 13
US-09-840-009-23
;; Sequence 23, Application US/09840009
;; Patent No. US20020082195A1
;; GENERAL INFORMATION:
;; APPLICANT: Lehrer, Robert I.
;; APPLICANT: Maring, Alan J.
;; APPLICANT: Tack, Brian F.
;; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
;; FILE REFERENCE: 06510-195WO
;; CURRENT APPLICATION NUMBER: US/09/840.009
;; CURRENT FILING DATE: 2001-04-19
;; PRIOR APPLICATION NUMBER: US 09/606,858
;; PRIOR FILING DATE: 2000-06-28
;; NUMBER OF SEQ ID NOS: 37

Query Match 100.0%; Score 61; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHNIK 13
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Db 1 LRRIRKIHNIK 13

RESULT 6
US-10-721-829-18

Sequence 18, Application US/10721829
Publication No. US20050113776A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 18

LENGTH: 14

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Peptide

US-10-721-829-18

Query Match 100.0%; Score 61; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0022;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LRRIRKIHNIK 13
|||||
Db 1 LRRIRKIHNIK 13

RESULT 7
US-10-060-102-14

Sequence 14, Application US/10060102

Publication No. US20030022829A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 16

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sy

OTHER INFORMATION: Peptide

US-10-060-102-14

Query Match 100.0%; Score 61; DB 4; Length 16.
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIHNIK 13
|||||
Db 2 LRRIRKIHNIK 14

RESULT 8
US-10-721-839-14

Sequence 14, Application US/10721839
Publication No. US20040086535A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14

LENGTH: 16

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sy

OTHER INFORMATION: Peptide

US-10-721-839-14

Query Match 100.0%; Score 61; DB 4; Length 16.
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 13; Conservative 0; Mismatches 0; Indels 0;

QY 1 LRRIRKIHNIK 13
|||||
Db 2 LRRIRKIHNIK 14

RESULT 9
US-10-721-829-14

Sequence 14, Application US/10721829
Publication No. US20050113776A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: December 16, 2005, 01:18:12 ; Search time 2.44237 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744e-10

Sequence: 1 NRRRIKKIHIKKY 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:*

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2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:.*
3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:.*
4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:.*
8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	77	97.5	18	US-11-092-496-8	Sequence 8, Appli
2	77	97.5	18	US-11-092-496-15	Sequence 15, Appli
3	77	97.5	18	US-11-092-496-22	Sequence 22, Appli
4	77	97.5	18	US-11-092-496-29	Sequence 29, Appli
5	76	96.2	18	US-11-119-581-64	Sequence 64, Appli
6	75	94.9	18	US-11-119-581-60	Sequence 60, Appli
7	73	92.4	18	US-11-119-581-59	Sequence 59, Appli
8	73	91.1	18	US-11-092-496-3	Sequence 3, Appli
9	72	91.1	18	US-11-092-496-7	Sequence 7, Appli
10	72	91.1	18	US-11-092-496-10	Sequence 10, Appli
11	72	91.1	18	US-11-092-496-14	Sequence 14, Appli
12	72	91.1	18	US-11-092-496-17	Sequence 17, Appli
13	72	91.1	18	US-11-092-496-21	Sequence 21, Appli
14	72	91.1	18	US-11-092-496-24	Sequence 24, Appli
15	72	91.1	18	US-11-092-496-28	Sequence 28, Appli
16	72	91.1	18	US-11-119-581-61	Sequence 61, Appli
17	72	91.1	18	US-11-119-581-62	Sequence 62, Appli
18	71	89.9	18	US-11-092-496-4	Sequence 4, Appli
19	71	89.9	18	US-11-092-496-11	Sequence 11, Appli
20	71	89.9	18	US-11-092-496-18	Sequence 18, Appli
21	71	89.9	18	US-11-092-496-25	Sequence 25, Appli
22	71	89.9	18	US-11-119-581-25	Sequence 25, Appli
23	70	88.6	18	US-11-092-496-5	Sequence 5, Appli
24	70	88.6	18	US-11-092-496-6	Sequence 6, Appli
25	70	88.6	18	US-11-092-496-12	Sequence 12, Appli

26	70	88.6	18	US-11-092-496-13	Seq
27	70	88.6	18	US-11-092-496-19	Seq
28	70	88.6	18	US-11-092-496-20	Seq
29	70	88.6	18	US-11-092-496-26	Seq
30	70	88.6	18	US-11-092-496-27	Seq
31	70	88.6	18	US-11-119-581-63	Seq
32	69	87.3	18	US-11-092-496-2	Seq
33	69	87.3	18	US-11-092-496-9	Seq
34	69	87.3	18	US-11-092-496-16	Seq
35	69	87.3	18	US-11-092-496-23	Seq
36	69	87.3	18	US-11-119-581-1	Seq
37	69	87.3	18	US-11-119-581-93	Seq
38	69	87.3	18	US-11-119-581-94	Seq
39	69	87.3	18	US-11-119-581-95	Seq
40	69	87.3	18	US-11-119-581-96	Seq
41	69	87.3	18	US-11-119-581-97	Seq
42	69	87.3	18	US-11-119-581-98	Seq
43	69	87.3	18	US-11-119-581-99	Seq
44	69	87.3	18	US-11-119-581-100	Seq
45	68	86.1	18	US-11-119-581-43	Seq

ALIGNMENTS

RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-Isoleucine
US-11-092-496-8

Query Match 97.5%, Score 77, DB 7, Length 18,
Best local similarity 93.8%, Pred. No. 3, 7e-07,
Matches 15, Conservative 1, Mismatches 0, Indels 0;

OY 1 NRRRIKKIHIKKY 16
DB 2 NRRRIKKIHIKKY 17
RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 97.5%; Score 77; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.7e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 NRRRIIRKIIHIKKY 16
DB 2 NLRRIIRKIIHIKKY 17

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaus, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 97.5%; Score 77; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.7e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 NRRRIIRKIIHIKKY 16
DB 2 NLRRIIRKIIHIKKY 17

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaus, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 97.5%; Score 77; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.7e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

QY 1 NRRRIIRKIIHIKKY 16
DB 2 NLRRIIRKIIHIKKY 17

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaus, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorocea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 96.2%; Score 76; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 5.4e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0;

QY 1 NRRRIIRKIIHIKKY 16
DB 2 NLRRIIRKIIHIKKY 17

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaus, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorocea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 94.9%; Score 75; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 7.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0;

QY 1 NRRRIIRKIIHIKKY 16

Db 2 NLRRIIRKIIHIKKY 17

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RESULT 7
US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorothea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646-.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59
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Query Match 92.4%; Score 73; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.6e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NLRRIIRKIIHIKKY 16
Db 2 NLRRIIRKIIHIKKY 17

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RESULT 8
US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3
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Query Match 91.1%; Score 72; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 2.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NLRRIIRKIIHIKKY 16
Db 2 NLRRIIRKIIHIKKY 17

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RESULT 9
US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
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; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7
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Query Match 91.1%; Score 72; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 2.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

Qy 1 NLRRIIRKIIHIKKY 16
Db 2 NLRRIIRKIIHIKKY 17

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RESULT 10
US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10
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Query Match 91.1%; Score 72; DB 7; Length 18;
Best Local Similarity 87.5%; Pred. No. 2.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

Qy 1 NLRRIIRKIIHIKKY 16
Db 2 NLRRIIRKIIHIKKY 17

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RESULT 11
US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
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FEATURES:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (7)-(7)
 ; OTHER INFORMATION: D-alanine
 US-11-092-496-14

Query Match 91.1%; Score 72; DB 7; Length 18;
 Best Local Similarity 87.5%; Pred. No. 2.4e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRIKIHIIKKY 16
 :|||||
 Db 2 NLRRIIRKIHIIKKY 17

RESULT 12
 US-11-092-496-17
 ; Sequence 17, Application US/11092496
 ; Publication No. US20050245452A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
 ; TITLE OF INVENTION: Pharmaceutical use of Novispirins
 ; FILE REFERENCE: 10630.204-US
 ; CURRENT APPLICATION NUMBER: US/11/092.496
 ; CURRENT FILING DATE: 2005-03-29
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 17
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-11-092-496-17

Query Match 91.1%; Score 72; DB 7; Length 18;
 Best Local Similarity 87.5%; Pred. No. 2.4e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRIKIHIIKKY 16
 :|||||
 Db 2 NLRRIIRKIHIIKKY 17

RESULT 13
 US-11-092-496-21
 ; Sequence 21, Application US/11092496
 ; Publication No. US20050245452A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
 ; TITLE OF INVENTION: Pharmaceutical use of Novispirins
 ; FILE REFERENCE: 10630.204-US
 ; CURRENT APPLICATION NUMBER: US/11/092.496
 ; CURRENT FILING DATE: 2005-03-29
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 21
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (10)-(10)
 ; OTHER INFORMATION: D-alanine
 US-11-092-496-21

Query Match 91.1%; Score 72; DB 7; Length 18;
 Best Local Similarity 87.5%; Pred. No. 2.4e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRIKIHIIKKY 16

Db 2 NLRRIIRKIHIIKKY 17
 :|||||

RESULT 14
 US-11-092-496-24
 ; Sequence 24, Application US/11092496
 ; Publication No. US20050245452A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
 ; TITLE OF INVENTION: Pharmaceutical use of Novispirins
 ; FILE REFERENCE: 10630.204-US
 ; CURRENT APPLICATION NUMBER: US/11/092.496
 ; CURRENT FILING DATE: 2005-03-29
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 24
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-11-092-496-24

Query Match 91.1%; Score 72; DB 7; Length 18;
 Best Local Similarity 87.5%; Pred. No. 2.4e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRIKIHIIKKY 16
 :|||||
 Db 2 NLRRIIRKIHIIKKY 17

RESULT 15
 US-11-092-496-28
 ; Sequence 28, Application US/11092496
 ; Publication No. US20050245452A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
 ; TITLE OF INVENTION: Pharmaceutical use of Novispirins
 ; FILE REFERENCE: 10630.204-US
 ; CURRENT APPLICATION NUMBER: US/11/092.496
 ; CURRENT FILING DATE: 2005-03-29
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 28
 ; LENGTH: 18
 ; TYPE: PRT
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (11)-(11)
 ; OTHER INFORMATION: D-alanine
 US-11-092-496-28

Query Match 91.1%; Score 72; DB 7; Length 18;
 Best Local Similarity 87.5%; Pred. No. 2.4e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRIKIHIIKKY 16
 :|||||
 Db 2 NLRRIIRKIHIIKKY 17

Search completed: December 16, 2005, 03:10:07
 Job time : 2.495 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 61.3583 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-10
Sequence: 1 NRRIRKIHIIKKY 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_Main.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	79	100.0	16 4 US-10-060-102-15	Sequence 15, Appl
2	79	100.0	16 4 US-10-721-839-15	Sequence 15, Appl
3	79	100.0	16 5 US-10-721-829-15	Sequence 15, Appl
4	79	100.0	18 4 US-10-060-102-10	Sequence 10, Appl
5	79	100.0	18 4 US-10-060-102-11	Sequence 11, Appl
6	79	100.0	18 4 US-10-721-839-10	Sequence 10, Appl
7	79	100.0	18 4 US-10-721-839-11	Sequence 11, Appl
8	79	100.0	18 5 US-10-721-829-10	Sequence 10, Appl
9	79	100.0	18 5 US-10-721-829-11	Sequence 11, Appl
10	77	97.5	16 4 US-10-060-102-14	Sequence 14, Appl
11	77	97.5	16 4 US-10-721-839-14	Sequence 14, Appl
12	77	97.5	16 5 US-10-721-829-14	Sequence 14, Appl
13	77	97.5	18 3 US-09-840-009-2	Sequence 2, Appl
14	77	97.5	18 3 US-09-840-009-9	Sequence 9, Appl
15	77	97.5	18 3 US-09-840-009-16	Sequence 16, Appl
16	77	97.5	18 3 US-09-840-009-23	Sequence 23, Appl
17	77	97.5	18 3 US-09-840-009-30	Sequence 30, Appl
18	77	97.5	18 4 US-10-060-102-9	Sequence 9, Appl
19	77	97.5	18 4 US-10-060-102-12	Sequence 12, Appl
20	77	97.5	18 4 US-10-721-839-9	Sequence 9, Appl
21	77	97.5	18 4 US-10-721-839-12	Sequence 12, Appl
22	77	97.5	18 5 US-10-721-829-9	Sequence 9, Appl
23	77	97.5	18 5 US-10-721-829-12	Sequence 12, Appl
24	77	97.5	29 4 US-10-060-102-8	Sequence 8, Appl
25	77	97.5	29 4 US-10-721-839-8	Sequence 8, Appl
26	77	97.5	29 5 US-10-721-829-8	Sequence 8, Appl
27	72	91.1	18 3 US-09-840-009-4	Sequence 4, Appl

28	72	91.1	18 3 US-09-840-009-8	Seq
29	72	91.1	18 3 US-09-840-009-11	Seq
30	72	91.1	18 3 US-09-840-009-15	Seq
31	72	91.1	18 3 US-09-840-009-18	Seq
32	72	91.1	18 3 US-09-840-009-22	Seq
33	72	91.1	18 3 US-09-840-009-25	Seq
34	72	91.1	18 3 US-09-840-009-29	Seq
35	72	91.1	18 4 US-10-060-102-25	Seq
36	72	91.1	18 4 US-10-721-839-25	Seq
37	72	91.1	18 5 US-10-721-829-25	Seq
38	71	89.9	18 3 US-09-840-009-5	Seq
39	71	89.9	18 3 US-09-840-009-12	Seq
40	71	89.9	18 3 US-09-840-009-19	Seq
41	71	89.9	18 3 US-09-840-009-26	Seq
42	70	88.6	18 3 US-09-840-009-6	Seq
43	70	88.6	18 3 US-09-840-009-7	Seq
44	70	88.6	18 3 US-09-840-009-13	Seq
45	70	88.6	18 3 US-09-840-009-14	Seq

ALIGNMENTS

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RESULT 1
US-10-060-102-15
; Sequence 15, Application US/10060102
; Publication No. US2003022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYI
US-10-060-102-15
Query Match      100.0%; Score 79; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

QY      1 NRRIRKIHIIKKY 16
DB      1 NRRIRKIHIIKKY 16

RESULT 2
US-10-721-839-15
; Sequence 15, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-15

Query Match 100.0%; Score 79; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 NRRIRKIHIIKKY 16
Db 1 NRRIRKIHIIKKY 16

RESULT 3
US-10-721-829-15
Sequence 15, Application US/10721829
Publication No. US2005011376A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-15

Query Match 100.0%; Score 79; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 NRRIRKIHIIKKY 16
Db 1 NRRIRKIHIIKKY 16

RESULT 4
US-10-060-102-10
Sequence 10, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-10

Query Match 100.0%; Score 79; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

OY 1 NRRIRKIHIIKKY 16
Db 2 NRRIRKIHIIKKY 17

RESULT 5
US-10-060-102-11
Sequence 11, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:03505
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-11

Query Match 100.0%; Score 79; DB 4; Length 18;

Best Local Similarity 100.0%; Pred. No. 1.7e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNRIRIKIHIIKKY 16
Db 2 NNRIRIKIHIIKKY 17

RESULT 6

US-10-721-839-10
; Sequence 10, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 10

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Peptide

US-10-721-839-10

Query Match 100.0%; Score 79; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-05;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NNRIRIKIHIIKKY 16
Db 2 NNRIRIKIHIIKKY 17

RESULT 7

US-10-721-839-11
; Sequence 11, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 11

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-11

Query Match 100.0%; Score 79; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 1.7e-05;

Matches 16; Conservative 0; Mismatches 0; Indels 0;

Qy 1 NNRIRIKIHIIKKY 16
Db 2 NNRIRIKIHIIKKY 17

RESULT 8

US-10-721-829-10
; Sequence 10, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 10

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-829-10

Query Match 100.0%; Score 79; DB 5; Length 18

Best Local Similarity 100.0%; Pred. No. 1.7e-05;

Matches 16; Conservative 0; Mismatches 0; Indels 0;

Qy 1 NNRIRIKIHIIKKY 16
Db 2 NNRIRIKIHIIKKY 17

RESULT 9

US-10-721-829-11
; Sequence 11, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI

;; TITLE OF INVENTION: CATHELICIDINS
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721,829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060,102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 11
;; LENGTH: 18
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-11

Query Match 100.0%; Score 79; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 1,7e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 NNRRIIRKIHIHKY 16
Db 2 NNRRIIRKIHIHKY 17

RESULT 10
US-10-060-102-14
;; Sequence 14, Application US/10060102
;; Publication No. US20030022829A1
;; GENERAL INFORMATION:
;; APPLICANT: MAURY, WENDY
;; APPLICANT: STAPLETON, JACK
;; APPLICANT: ROLLER, RICHARD
;; APPLICANT: STINSKI, MARK
;; APPLICANT: MCCRAY, PAUL B.
;; APPLICANT: TACK, BRIAN
;; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/060,102
;; CURRENT FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 14
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-14

Query Match 97.5%; Score 77; DB 4; Length 16;
Best Local Similarity 93.8%; Pred. No. 3e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 NNRRIIRKIHIHKY 16
Db 1 NNRRIIRKIHIHKY 16

RESULT 11
US-10-721-839-14
;; Sequence 14, Application US/10721839

;; Publication No. US20040086535A1
;; GENERAL INFORMATION:
;; APPLICANT: MAURY, WENDY
;; APPLICANT: STAPLETON, JACK
;; APPLICANT: ROLLER, RICHARD
;; APPLICANT: STINSKI, MARK
;; APPLICANT: MCCRAY, PAUL B.
;; APPLICANT: TACK, BRIAN
;; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721,839
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060,102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 14
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-14

Query Match 97.5%; Score 77; DB 4; Length 16;
Best Local Similarity 93.8%; Pred. No. 3e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

Oy 1 NNRRIIRKIHIHKY 16
Db 1 NNRRIIRKIHIHKY 16

RESULT 12
US-10-721-829-14
;; Sequence 14, Application US/10721829
;; Publication No. US20050113776A1
;; GENERAL INFORMATION:
;; APPLICANT: MAURY, WENDY
;; APPLICANT: STAPLETON, JACK
;; APPLICANT: ROLLER, RICHARD
;; APPLICANT: STINSKI, MARK
;; APPLICANT: MCCRAY, PAUL B.
;; APPLICANT: TACK, BRIAN
;; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
;; FILE REFERENCE: IOWA:035US
;; CURRENT APPLICATION NUMBER: US/10/721,829
;; CURRENT FILING DATE: 2003-11-25
;; PRIOR APPLICATION NUMBER: US/10/060,102
;; PRIOR FILING DATE: 2002-02-22
;; PRIOR APPLICATION NUMBER: 60/309,368
;; PRIOR FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: 60/265,270
;; PRIOR FILING DATE: 2001-01-30
;; NUMBER OF SEQ ID NOS: 32
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 14
;; LENGTH: 16
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-14

Query Match 97.5%; Score 77; DB 5; Length 16;

Best Local Similarity 93.8%; Pred. No. 3e-05; Indels 0; Gaps 0;
Matches 15; Conservative 1; Mismatches 0;

Qy 1 NRRRIIRKIIHIKKY 16
Db 1 NRRRIIRKIIHIKKY 16

RESULT 13

US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match 97.5%; Score 77; DB 3; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.4e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NRRRIIRKIIHIKKY 16
Db 2 NRRRIIRKIIHIKKY 17

RESULT 14

US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-9

Query Match 97.5%; Score 77; DB 3; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.4e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 NRRRIIRKIIHIKKY 16
Db 2 NRRRIIRKIIHIKKY 17

US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 97.5%; Score 77; DB 3; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.4e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

Qy 1 NRRRIIRKIIHIKKY 16
Db 2 NRRRIIRKIIHIKKY 17

Search completed: December 16, 2005, 03:09:12
Job time : 61.3583 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 17.8941 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-10
Perfect score: 79
Sequence: 1 NRRIRKIHIIKKY 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
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2: /cgn2_6/ptodata/1/aa/6_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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3	77	97.5	18	2	US-09-840-009-16
4	77	97.5	18	2	US-09-840-009-23
5	77	97.5	18	2	US-09-840-009-30
6	72	91.1	18	2	US-09-840-009-4
7	72	91.1	18	2	US-09-840-009-8
8	72	91.1	18	2	US-09-840-009-11
9	72	91.1	18	2	US-09-840-009-15
10	72	91.1	18	2	US-09-840-009-18
11	72	91.1	18	2	US-09-840-009-22
12	72	91.1	18	2	US-09-840-009-25
13	72	91.1	18	2	US-09-840-009-29
14	71	89.9	18	2	US-09-840-009-5
15	71	89.9	18	2	US-09-840-009-12
16	71	89.9	18	2	US-09-840-009-19
17	71	89.9	18	2	US-09-840-009-26
18	70	88.6	18	2	US-09-840-009-6
19	70	88.6	18	2	US-09-840-009-7
20	70	88.6	18	2	US-09-840-009-13
21	70	88.6	18	2	US-09-840-009-14
22	70	88.6	18	2	US-09-840-009-20
23	70	88.6	18	2	US-09-840-009-21
24	70	88.6	18	2	US-09-840-009-27
25	70	88.6	18	2	US-09-840-009-28
26	69	87.3	18	2	US-09-840-009-3
27	69	87.3	18	2	US-09-840-009-10

ALIGNMENTS

28	69	87.3	18	2	US-09-840-009-17	Seq:
29	69	87.3	18	2	US-09-840-009-24	Seq:
30	69	87.3	18	2	US-09-840-009-31	Seq:
31	63	79.7	18	2	US-09-840-009-34	Seq:
32	63	79.7	18	2	US-09-840-009-35	Seq:
33	61	77.2	18	2	US-09-840-009-32	Seq:
34	61	77.2	18	2	US-09-840-009-33	Seq:
35	57	72.2	18	2	US-09-840-009-1	Seq:
36	55	69.6	18	2	US-09-840-009-36	Seq:
37	55	69.6	18	2	US-09-840-009-37	Seq:
38	47	59.5	160	2	US-09-917-340-36	Seq:
39	47	59.5	169	2	US-09-270-767-35406	Seq:
40	47	59.5	169	2	US-09-270-767-50623	Seq:
41	43	54.4	66	2	US-09-270-767-39626	Seq:
42	43	54.4	66	2	US-09-270-767-54843	Seq:
43	42	53.2	24	2	US-09-785-059B-5	Seq:
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45	42	53.2	36	2	US-09-785-059B-6	Seq:

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          97.5%; Score 77; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.7e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

Cy      1 NRRIRKIHIIKKY 16
Db      2 NRRIRKIHIIKKY 17

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

```

```

; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-9
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Query Match          97.5%; Score 77; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.7e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 NRRRIKKIHIHKKY 16
         |||
Db       2 NLRRIKKIHIHKKY 17
```

```
RESULT 3
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. 6492328
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; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-16
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```
Query Match          97.5%; Score 77; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.7e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 NRRRIKKIHIHKKY 16
         |||
Db       2 NLRRIKKIHIHKKY 17
```

```
RESULT 4
US-09-840-009-23
; Sequence 23, Application US/09840009
; Patent No. 6492328
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; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
```

```

; OTHER INFORMATION: D-Isoleucine
US-09-840-009-23
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```
Query Match          97.5%; Score 77; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.7e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0;
```

```
OY      1 NRRRIKKIHIHKKY 16
         |||
Db       2 NLRRIKKIHIHKKY 17
```

```
RESULT 5
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. 6492328
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```

; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-30
```

```
Query Match          97.5%; Score 77; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.7e-05;
Matches 15; Conservative 1; Mismatches 0; Indels 0;
```

```
OY      1 NRRRIKKIHIHKKY 16
         |||
Db       2 NLRRIKKIHIHKKY 17
```

```
RESULT 6
US-09-840-009-4
; Sequence 4, Application US/09840009
; Patent No. 6492328
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```

; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4
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Query Match          91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0;
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QY 1 NNRRIIRKIIHIKKY 16
|:|||||
Db 2 NLRRIIRKIIHIKKY 17

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NNRRIIRKIIHIKKY 16
|:|||||
Db 2 NLRRIIRKIIHIKKY 17

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NNRRIIRKIIHIKKY 16
|:|||||
Db 2 NLRRIIRKIIHIKKY 17

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NNRRIIRKIIHIKKY 16
|:|||||
Db 2 NLRRIIRKIIHIKKY 17

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NNRRIIRKIIHIKKY 16
|:|||||
Db 2 NLRRIIRKIIHIKKY 17

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-22

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NRRIRKIHIIKKY 16
Db 2 NLRRIKRIKHIIKKY 17

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NRRIRKIHIIKKY 16
Db 2 NLRRIKRIKHIIKKY 17

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-29

Query Match 91.1%; Score 72; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 9.8e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRKIHIIKKY 16
Db 2 NLRRIKRIKHIIKKY 17

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 89.9%; Score 71; DB 2; Length 18;
Best Local Similarity 87.5%; Pred. No. 0.00014;
Matches 14; Conservative 1; Mismatches 1; Indels 0;

QY 1 NRRIRKIHIIKKY 16
Db 2 NLRRIKRIKHIIKKY 17

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

Query Match 89.9%; Score 71; DB 2; Length 18;
Best Local Similarity 87.5%; Pred No. 0.00014;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 NRRRIIRKIHIIKKY 16
Db 2 NLRRIISRKIHIIKKY 17

Search completed: December 16, 2005, 01:24:08
Job time : 18.9467 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.44237 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-9
Sequence: 1 MLRRIRKIHIKKY 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues
Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
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2: /cgn2_6/ptodata/2/ptubpa/US06_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/ptubpa/US07_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/ptubpa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/ptubpa/PCF_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/ptubpa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/ptubpa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/ptubpa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	DB ID	Description
1	79	100.0	18 7 US-11-092-496-8	Sequence 8, Appli
2	79	100.0	18 7 US-11-092-496-15	Sequence 15, Appli
3	79	100.0	18 7 US-11-092-496-22	Sequence 22, Appli
4	79	100.0	18 7 US-11-092-496-29	Sequence 29, Appli
5	78	98.7	18 7 US-11-119-581-64	Sequence 64, Appli
6	77	97.5	18 7 US-11-119-581-60	Sequence 60, Appli
7	75	94.9	18 7 US-11-119-581-59	Sequence 59, Appli
8	74	93.7	18 7 US-11-092-496-3	Sequence 59, Appli
9	74	93.7	18 7 US-11-092-496-7	Sequence 7, Appli
10	74	93.7	18 7 US-11-092-496-10	Sequence 10, Appli
11	74	93.7	18 7 US-11-092-496-14	Sequence 14, Appli
12	74	93.7	18 7 US-11-092-496-17	Sequence 17, Appli
13	74	93.7	18 7 US-11-092-496-21	Sequence 21, Appli
14	74	93.7	18 7 US-11-092-496-24	Sequence 24, Appli
15	74	93.7	18 7 US-11-092-496-28	Sequence 28, Appli
16	74	93.7	18 7 US-11-119-581-61	Sequence 61, Appli
17	73	93.7	18 7 US-11-119-581-62	Sequence 62, Appli
18	73	92.4	18 7 US-11-092-496-4	Sequence 4, Appli
19	73	92.4	18 7 US-11-092-496-11	Sequence 11, Appli
20	73	92.4	18 7 US-11-092-496-18	Sequence 18, Appli
21	73	92.4	18 7 US-11-092-496-25	Sequence 25, Appli
22	72	91.1	18 7 US-11-092-496-5	Sequence 5, Appli
23	72	91.1	18 7 US-11-092-496-6	Sequence 6, Appli
24	72	91.1	18 7 US-11-092-496-12	Sequence 12, Appli
25	72	91.1	18 7 US-11-092-496-13	Sequence 13, Appli

26	72	91.1	18 7 US-11-092-496-19	Se	21
27	72	91.1	18 7 US-11-092-496-20	Se	21
28	72	91.1	18 7 US-11-092-496-26	Se	21
29	72	91.1	18 7 US-11-092-496-27	Se	21
30	72	91.1	18 7 US-11-119-581-63	Se	21
31	71	89.9	18 7 US-11-092-496-2	Se	11
32	71	89.9	18 7 US-11-092-496-9	Se	11
33	71	89.9	18 7 US-11-092-496-16	Se	21
34	71	89.9	18 7 US-11-092-496-23	Se	21
35	71	89.9	18 7 US-11-119-581-1	Se	11
36	71	89.9	18 7 US-11-119-581-93	Se	21
37	71	89.9	18 7 US-11-119-581-94	Se	21
38	71	89.9	18 7 US-11-119-581-95	Se	21
39	71	89.9	18 7 US-11-119-581-96	Se	21
40	71	89.9	18 7 US-11-119-581-97	Se	21
41	71	89.9	18 7 US-11-119-581-98	Se	21
42	71	89.9	18 7 US-11-119-581-99	Se	21
43	71	89.9	18 7 US-11-119-581-100	Se	21
44	70	88.6	18 7 US-11-119-581-43	Se	21
45	70	88.6	18 7 US-11-119-581-78	Se	21

ALIGNMENTS

```

RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURES:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8

Query Match      100.0%; Score 79; DB 7; Length 18:
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

Cy      1 MLRRIRKIHIKKY 16
Db      2 MLRRIRKIHIKKY 17

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

```

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-isoleucine
US-11-092-496-15

Query Match 100.0%; Score 79; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 NLRRIIRKIHIIRKY 16
DB 2 NLRRIIRKIHIIRKY 17

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-isoleucine
US-11-092-496-22

Query Match 100.0%; Score 79; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 NLRRIIRKIHIIRKY 16
DB 2 NLRRIIRKIHIIRKY 17

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-isoleucine

US-11-092-496-29

Query Match 100.0%; Score 79; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIIRKY 16
DB 2 NLRRIIRKIHIIRKY 17

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.7%; Score 78; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 2.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIIRKY 16
DB 2 NLRRIIRKIHIIRKY 17

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 97.5%; Score 77; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 3.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIIRKY 16

Db 2 NLRRIIRKIHIIKKY 17

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 94.9%; Score 75; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 6.8e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Qy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Qy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

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FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7)-(7)
OTHER INFORMATION: D-alanine
US-11-092-496-14
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Query Match      93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;
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OY      1 NLRRIIRKIHIIKKY 16
          |||||
Db      2 NLRRIIRKIHIIKKY 17
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RESULT 12
US-11-092-496-17
Sequence 17, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
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```
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17
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Query Match      93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;
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OY      1 NLRRIIRKIHIIKKY 16
          |||||
Db      2 NLRRIIRKIHIIKKY 17
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RESULT 13

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US-11-092-496-21
Sequence 21, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)-(10)
OTHER INFORMATION: D-alanine
US-11-092-496-21
```

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Query Match      93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;
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```
OY      1 NLRRIIRKIHIIKKY 16
```

```
Db      2 NLRRIIRKIHIIKKY 17
          |||||
```

```
RESULT 14
US-11-092-496-24
Sequence 24, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24
```

```
Query Match      93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;
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```
OY      1 NLRRIIRKIHIIKKY 16
          |||||
Db      2 NLRRIIRKIHIIKKY 17
```

RESULT 15

```
US-11-092-496-28
Sequence 28, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)-(11)
OTHER INFORMATION: D-alanine
US-11-092-496-28
```

```
Query Match      93.7%; Score 74; DB 7; Length 18;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0;
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```
OY      1 NLRRIIRKIHIIKKY 16
          |||||
Db      2 NLRRIIRKIHIIKKY 17
```

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Search completed: December 16, 2005, 03:10:07
Job time : 2.495 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 61.3583 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-9
Perfect score: 79
Sequence: 1 NLRRIIRKIHIIKKY 16

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	79	100.0	16	4	US-10-060-102-14 Sequence 14, Appl
2	79	100.0	16	4	US-10-721-839-14 Sequence 14, Appl
3	79	100.0	16	5	US-10-721-829-14 Sequence 14, Appl
4	79	100.0	18	3	US-09-840-009-2 Sequence 2, Appl
5	79	100.0	18	3	US-09-840-009-9 Sequence 9, Appl
6	79	100.0	18	3	US-09-840-009-16 Sequence 16, Appl
7	79	100.0	18	3	US-09-840-009-23 Sequence 23, Appl
8	79	100.0	18	3	US-09-840-009-30 Sequence 30, Appl
9	79	100.0	18	4	US-10-060-102-9 Sequence 9, Appl
10	79	100.0	18	4	US-10-060-102-12 Sequence 12, Appl
11	79	100.0	18	4	US-10-721-839-9 Sequence 9, Appl
12	79	100.0	18	4	US-10-721-839-12 Sequence 12, Appl
13	79	100.0	18	5	US-10-721-829-9 Sequence 9, Appl
14	79	100.0	18	5	US-10-721-829-12 Sequence 12, Appl
15	79	100.0	29	4	US-10-060-102-8 Sequence 8, Appl
16	79	100.0	29	4	US-10-721-839-8 Sequence 8, Appl
17	79	100.0	29	5	US-10-721-829-8 Sequence 8, Appl
18	79	97.5	16	4	US-10-060-102-15 Sequence 15, Appl
19	77	97.5	16	4	US-10-721-839-15 Sequence 15, Appl
20	77	97.5	16	5	US-10-721-829-15 Sequence 15, Appl
21	77	97.5	18	4	US-10-060-102-10 Sequence 10, Appl
22	77	97.5	18	4	US-10-060-102-11 Sequence 11, Appl
23	77	97.5	18	4	US-10-721-839-10 Sequence 10, Appl
24	77	97.5	18	4	US-10-721-839-11 Sequence 11, Appl
25	77	97.5	18	5	US-10-721-829-10 Sequence 10, Appl
26	77	97.5	18	5	US-10-721-829-11 Sequence 11, Appl
27	74	93.7	18	3	US-09-840-009-4 Sequence 4, Appl

28	74	93.7	18	3	US-09-840-009-8	Set
29	74	93.7	18	3	US-09-840-009-11	Set
30	74	93.7	18	3	US-09-840-009-15	Set
31	74	93.7	18	3	US-09-840-009-18	Set
32	74	93.7	18	3	US-09-840-009-22	Set
33	74	93.7	18	3	US-09-840-009-25	Set
34	74	93.7	18	3	US-09-840-009-29	Set
35	74	93.7	18	4	US-10-060-102-25	Set
36	74	93.7	18	4	US-10-060-102-25	Set
37	74	93.7	18	5	US-10-721-829-25	Set
38	73	92.4	18	3	US-09-840-009-5	Set
39	73	92.4	18	3	US-09-840-009-12	Set
40	73	92.4	18	3	US-09-840-009-19	Set
41	73	92.4	18	3	US-09-840-009-26	Set
42	72	91.1	18	3	US-09-840-009-6	Set
43	72	91.1	18	3	US-09-840-009-7	Set
44	72	91.1	18	3	US-09-840-009-13	Set
45	72	91.1	18	3	US-09-840-009-14	Set

ALIGNMENTS

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RESULT 1
US-10-060-102-14
Sequence 14, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy;
US-10-060-102-14
Query Match 100.0%; Score 79; DB 4; Length 16
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;
Cy 1 NLRRIIRKIHIIKKY 16
Db 1 NLRRIIRKIHIIKKY 16
RESULT 2
US-10-721-839-14
Sequence 14, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
```

```

; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-14

```

```

Query Match      100.0%; Score 79; DB 4; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 NLRRIIRKIHIHKY 16
Db      1 NLRRIIRKIHIHKY 16

```

RESULT 3

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US-10-721-829-14
; Sequence 14, Application US/10721829
; Publication No. US2005013776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-14

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```

Query Match      100.0%; Score 79; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 NLRRIIRKIHIHKY 16
Db      1 NLRRIIRKIHIHKY 16

```

```

RESULT 4
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

```

```

Query Match      100.0%; Score 79; DB 3; Length 18
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

```

```
QY      1 NLRRIIRKIHIHKY 16
Db      2 NLRRIIRKIHIHKY 17

```

RESULT 5

```

US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-9

```

```

Query Match      100.0%; Score 79; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

```

```
QY      1 NLRRIIRKIHIHKY 16
Db      2 NLRRIIRKIHIHKY 17

```

RESULT 6

```

US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:

```

APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-isoleucine
US-09-840-009-16

Query Match 100.0%; Score 79; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 NLRRIIRKIHIKKY 16
Db 2 NLRRIIRKIHIKKY 17

RESULT 7
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. US20020082195A1
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-isoleucine
US-09-840-009-23

Query Match 100.0%; Score 79; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 NLRRIIRKIHIKKY 16
Db 2 NLRRIIRKIHIKKY 17

RESULT 8
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. US20020082195A1
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO

CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-isoleucine
US-09-840-009-30

Query Match 100.0%; Score 79; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

Cy 1 NLRRIIRKIHIKKY 16
Db 2 NLRRIIRKIHIKKY 17

RESULT 9
US-10-060-102-9
Sequence 9, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTI-VIRAL ACTIVITIES OF PRIMATE 1
FILE REFERENCE: IOWA-035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-9

Query Match 100.0%; Score 79; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

Cy 1 NLRRIIRKIHIKKY 16
Db 2 NLRRIIRKIHIKKY 17

RESULT 10
US-10-060-102-12
Sequence 12, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK

```

; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-060-102-12
```

```
Query Match      100.0%; Score 79; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 NLRRIIRKIHIIRKY 16
        |||
Db      2 NLRRIIRKIHIIRKY 17
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RESULT 11

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US-10-721-839-9
; Sequence 9, Application US/10721839
; Publication No. US20040086535A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-721-839-9
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```
Query Match      100.0%; Score 79; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1 NLRRIIRKIHIIRKY 16
        |||
Db      2 NLRRIIRKIHIIRKY 17
```

```

; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,839
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-721-839-12
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AND M 5.17

```
Query Match      100.0%; Score 79; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;
```

```
Oy      1 NLRRIIRKIHIIRKY 16
        |||
Db      2 NLRRIIRKIHIIRKY 17
```

RESULT 13

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US-10-721-829-9
; Sequence 9, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
```

AND M 5.17

US-10-721-829-9

Query Match 100.0%; Score 79; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 14

US-10-721-829-12
Sequence 12, Application US/10721829
Publication No. US200501376A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-12

Query Match 100.0%; Score 79; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.8e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

RESULT 15

US-10-060-102-8
Sequence 8, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA.035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-8

Query Match 100.0%; Score 79; DB 4; Length 25
Best Local Similarity 100.0%; Pred. No. 2.9e-05;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

Oy 1 NLRRIIRKIHIIKKY 16
Db 2 NLRRIIRKIHIIKKY 17

Search completed: December 16, 2005, 03:09:12
Job time : 62.3583 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 17.8941 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-9
Perfect score: 79
Sequence: 1 NLRRIKRIHIKKY 16

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
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3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PC/TUS_COMB.pep:*
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6: /cgn2_6/ptodata/1/1aa/backfil1es1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	79	100.0	18	2	US-09-840-009-2
2	79	100.0	18	2	US-09-840-009-9
3	79	100.0	18	2	US-09-840-009-16
4	79	100.0	18	2	US-09-840-009-23
5	79	100.0	18	2	US-09-840-009-30
6	74	93.7	18	2	US-09-840-009-4
7	74	93.7	18	2	US-09-840-009-8
8	74	93.7	18	2	US-09-840-009-11
9	74	93.7	18	2	US-09-840-009-15
10	74	93.7	18	2	US-09-840-009-18
11	74	93.7	18	2	US-09-840-009-22
12	74	93.7	18	2	US-09-840-009-25
13	74	93.7	18	2	US-09-840-009-29
14	73	92.4	18	2	US-09-840-009-5
15	73	92.4	18	2	US-09-840-009-12
16	73	92.4	18	2	US-09-840-009-19
17	73	92.4	18	2	US-09-840-009-26
18	72	91.1	18	2	US-09-840-009-6
19	72	91.1	18	2	US-09-840-009-7
20	72	91.1	18	2	US-09-840-009-13
21	72	91.1	18	2	US-09-840-009-14
22	72	91.1	18	2	US-09-840-009-20
23	72	91.1	18	2	US-09-840-009-21
24	72	91.1	18	2	US-09-840-009-27
25	72	91.1	18	2	US-09-840-009-28
26	71	89.9	18	2	US-09-840-009-3
27	71	89.9	18	2	US-09-840-009-10

28	71	89.9	18	2	US-09-840-009-17	Seq
29	71	89.9	18	2	US-09-840-009-24	Seq
30	71	89.9	18	2	US-09-840-009-31	Seq
31	65	82.3	18	2	US-09-840-009-34	Seq
32	65	82.3	18	2	US-09-840-009-35	Seq
33	63	79.7	18	2	US-09-840-009-32	Seq
34	63	79.7	18	2	US-09-840-009-33	Seq
35	59	74.7	18	2	US-09-840-009-1	Seq
36	57	72.2	18	2	US-09-840-009-36	Seq
37	57	72.2	18	2	US-09-840-009-37	Seq
38	49	62.0	160	2	US-09-917-340-36	Seq
39	45	57.0	169	2	US-09-270-767-35406	Seq
40	45	57.0	169	2	US-09-270-767-50623	Seq
41	44	55.7	205	2	US-09-134-001C-4766	Seq
42	43.5	55.1	167	2	US-09-710-279-1502	Seq
43	43.5	55.1	320	2	US-09-134-001C-3823	Seq
44	43	54.4	823	2	US-09-949-016-8339	Seq
45	42	53.2	526	2	US-09-270-767-45588	Seq

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Robert J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/840.009
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match          100.0%; Score 79; DB 2; Length 18
Best Local Similarity 100.0%; Pred. No. 9.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

OY      1 NLRRIKRIHIKKY 16
DB      2 NLRRIKRIHIKKY 17

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Robert J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/840.009
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

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LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 79; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 NLRRIIRKIHIHKY 16
Db 2 NLRRIIRKIHIHKY 17

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-16

Query Match 100.0%; Score 79; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIHKY 16
Db 2 NLRRIIRKIHIHKY 17

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 79; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIHKY 16
Db 2 NLRRIIRKIHIHKY 17

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-30

Query Match 100.0%; Score 79; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0;

QY 1 NLRRIIRKIHIHKY 16
Db 2 NLRRIIRKIHIHKY 17

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Oy 1 NLRRIIRKIHIHIKKY 16
| | | | | | | | | | | | | | | |
Db 2 NLRRIIRKIHIHIKKY 17

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Oy 1 NLRRIIRKIHIHIKKY 16
| | | | | | | | | | | | | | | |
Db 2 NLRRIIRKIHIHIKKY 17

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Oy 1 NLRRIIRKIHIHIKKY 16
| | | | | | | | | | | | | | | |
Db 2 NLRRIIRKIHIHIKKY 17

RESULT 9
US-09-840-009-15

; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Oy 1 NLRRIIRKIHIHIKKY 16
| | | | | | | | | | | | | | | |
Db 2 NLRRIIRKIHIHIKKY 17

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

Oy 1 NLRRIIRKIHIHIKKY 16
| | | | | | | | | | | | | | | |
Db 2 NLRRIIRKIHIHIKKY 17

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT FILING DATE: 2001-04-19
CURRENT APPLICATION NUMBER: US 09/606,009
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-22

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

QY 1 NLRRIRKIHIIKKY 16
Db 2 NLRRIRKIHIIKKY 17

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

QY 1 NLRRIRKIHIIKKY 16
Db 2 NLRRIRKIHIIKKY 17

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-29

Query Match 93.7%; Score 74; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 5.7e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

QY 1 NLRRIRKIHIIKKY 16
Db 2 NLRRIRKIHIIKKY 17

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 92.4%; Score 73; DB 2; Length 18;
Best Local Similarity 93.8%; Pred. No. 8e-05;
Matches 15; Conservative 0; Mismatches 1; Indels 0;

QY 1 NLRRIRKIHIIKKY 16
Db 2 NLRRIRKIHIIKKY 17

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic antimicrobial peptide
 US-09-840-009-12

Query Match 92.4%; Score 73; DB 2; Length 18;
 Best Local Similarity 93.8%; Pred. No. 9e-05; 1; Indels 0; Gaps 0;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 NLRRIRKIHIIKKY 16
 |||||
 Db 2 NLRRIRKIHIIKKY 17

Search completed: December 16, 2005, 01:24:07
 Job time : 17.9467 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.74766 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744e-8

Perfect score: 90

Sequence: 1 KNLRRIRKIHIIKKYG 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US66_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	90	100.0	18	7	US-11-092-496-8
2	90	100.0	18	7	US-11-092-496-15
3	90	100.0	18	7	US-11-092-496-22
4	90	100.0	18	7	US-11-092-496-29
5	89	98.9	18	7	US-11-119-581-64
6	88	97.8	18	7	US-11-119-581-60
7	86	95.6	18	7	US-11-119-581-59
8	85	94.4	18	7	US-11-092-496-3
9	85	94.4	18	7	US-11-092-496-7
10	85	94.4	18	7	US-11-092-496-10
11	85	94.4	18	7	US-11-092-496-14
12	85	94.4	18	7	US-11-092-496-17
13	85	94.4	18	7	US-11-092-496-21
14	85	94.4	18	7	US-11-092-496-24
15	85	94.4	18	7	US-11-092-496-28
16	85	94.4	18	7	US-11-119-581-61
17	85	94.4	18	7	US-11-119-581-62
18	84	93.3	18	7	US-11-092-496-4
19	84	93.3	18	7	US-11-092-496-11
20	84	93.3	18	7	US-11-092-496-18
21	84	93.3	18	7	US-11-092-496-25
22	83	92.2	18	7	US-11-092-496-5
23	83	92.2	18	7	US-11-092-496-6
24	83	92.2	18	7	US-11-092-496-12
25	83	92.2	18	7	US-11-092-496-13

26	83	92.2	18	7	US-11-092-496-19	Seq
27	83	92.2	18	7	US-11-092-496-20	Seq
28	83	92.2	18	7	US-11-092-496-26	Seq
29	83	92.2	18	7	US-11-092-496-27	Seq
30	83	92.2	18	7	US-11-119-581-63	Seq
31	82	91.1	18	7	US-11-092-496-2	Seq
32	82	91.1	18	7	US-11-092-496-9	Seq
33	82	91.1	18	7	US-11-092-496-16	Seq
34	82	91.1	18	7	US-11-092-496-23	Seq
35	82	91.1	18	7	US-11-119-581-1	Seq
36	81	90.0	18	7	US-11-119-581-43	Seq
37	81	90.0	18	7	US-11-119-581-78	Seq
38	81	90.0	18	7	US-11-119-581-82	Seq
39	80	88.9	18	7	US-11-119-581-25	Seq
40	80	88.9	18	7	US-11-119-581-40	Seq
41	80	88.9	18	7	US-11-119-581-45	Seq
42	80	88.9	18	7	US-11-119-581-77	Seq
43	80	88.9	18	7	US-11-119-581-80	Seq
44	79	87.8	18	7	US-11-119-581-42	Seq
45	79	87.8	18	7	US-11-119-581-56	Seq

ALIGNMENTS

RESULT 1
US-11-092-496-8
Sequence 8, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (6)..(6)
OTHER INFORMATION: D-isoleucine
US-11-092-496-8

Query Match 100.0%; Score 90; DB 7; Length 18
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 2
US-11-092-496-15
Sequence 15, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 15
LENGTH: 18
TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 3
US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 5
US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureaux, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.9%; Score 89; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.4e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 6
US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorothea Raventos
APPLICANT: Taboureaux, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119.581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.4e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18

Db 1 KNLRRIRKLIHIKKYG 18

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 95.6%; Score 86; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 7e-08;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKLIHIKKYG 18
Db 1 KNLRRIRKLIHIKKYG 18

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKLIHIKKYG 18
Db 1 KNLRRIRKLIHIKKYG 18

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKLIHIKKYG 18
Db 1 KNLRRIRKLIHIKKYG 18

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKLIHIKKYG 18
Db 1 KNLRRIRKLIHIKKYG 18

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7) (7)
OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 12
US-11-092-496-17
Sequence 17, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 13
US-11-092-496-21
Sequence 21, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10) (10)
OTHER INFORMATION: D-alanine
US-11-092-496-21

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18

DB 1 KNLRRIRKIHIIKKYG 18

RESULT 14
US-11-092-496-24
Sequence 24, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 15
US-11-092-496-28
Sequence 28, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11) (11)
OTHER INFORMATION: D-alanine
US-11-092-496-28

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

Search completed: December 16, 2005, 03:10:07
Job time : 3.8003 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 69.028 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-8
Perfect score: 90
Sequence: 1 KNLRRIRKIHIIKKYG 18

Scoring table:
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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
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5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	90	100.0	18	3	US-09-840-009-2
2	90	100.0	18	3	US-09-840-009-9
3	90	100.0	18	3	US-09-840-009-16
4	90	100.0	18	3	US-09-840-009-23
5	90	100.0	18	3	US-09-840-009-30
6	90	100.0	18	4	US-10-060-102-9
7	90	100.0	18	4	US-10-060-102-12
8	90	100.0	18	4	US-10-060-102-9
9	90	100.0	18	4	US-10-721-829-12
10	90	100.0	18	5	US-10-721-829-9
11	90	100.0	18	5	US-10-721-829-12
12	90	100.0	29	4	US-10-060-102-8
13	90	100.0	29	4	US-10-721-829-8
14	90	100.0	29	5	US-10-721-829-8
15	88	97.8	18	4	US-10-060-102-11
16	88	97.8	18	4	US-10-060-102-11
17	88	97.8	18	4	US-10-721-829-10
18	88	97.8	18	4	US-10-721-829-11
19	88	97.8	18	5	US-10-721-829-10
20	88	97.8	18	5	US-10-721-829-11
21	85	94.4	18	3	US-09-840-009-4
22	85	94.4	18	3	US-09-840-009-8
23	85	94.4	18	3	US-09-840-009-11
24	85	94.4	18	3	US-09-840-009-15
25	85	94.4	18	3	US-09-840-009-18
26	85	94.4	18	3	US-09-840-009-22
27	85	94.4	18	3	US-09-840-009-25

ALIGNMENTS

28	85	94.4	18	3	US-09-840-009-29	Se
29	85	94.4	18	4	US-10-060-102-25	Se
30	85	94.4	18	4	US-10-721-829-25	Se
31	85	94.4	18	5	US-10-721-829-25	Se
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33	84	93.3	18	3	US-09-840-009-12	Se
34	84	93.3	18	3	US-09-840-009-19	Se
35	84	93.3	18	3	US-09-840-009-26	Se
36	83	92.2	18	3	US-09-840-009-6	Se
37	83	92.2	18	3	US-09-840-009-9	Se
38	83	92.2	18	3	US-09-840-009-13	Se
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41	83	92.2	18	3	US-09-840-009-21	Se
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43	83	92.2	18	3	US-09-840-009-28	Se
44	82	91.1	18	3	US-09-840-009-3	Se
45	82	91.1	18	3	US-09-840-009-10	Se

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match 100.0%; Score 90; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18
RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: Peptide
 US-10-060-102-9

Query Match 100.0%; Score 90; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 7e-07;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
 DB 1 KNLRRIRKIHIIKKYG 18

RESULT 7
 US-10-060-102-12

Sequence 12, Application US/10060102
 Publication No. US20030022829A1

GENERAL INFORMATION:
 APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.
 APPLICANT: TACK, BRIAN
 TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2002-02-22
 PRIOR FILING DATE: 2001-08-01
 PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-01-30
 NUMBER OF SEQ ID NOS: 32
 SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 12
 LENGTH: 18
 TYPE: PRT

ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-10-060-102-12

Query Match 100.0%; Score 90; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 7e-07;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
 DB 1 KNLRRIRKIHIIKKYG 18

RESULT 8
 US-10-721-839-9

Sequence 9, Application US/10721839
 Publication No. US20040086535A1

GENERAL INFORMATION:
 APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.
 APPLICANT: TACK, BRIAN
 TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25
 PRIOR FILING DATE: 2002-02-22
 PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2001-08-01
 NUMBER OF SEQ ID NOS: 368

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30
 NUMBER OF SEQ ID NOS: 32
 SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 9
 LENGTH: 18
 TYPE: PRT

ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Sy
 OTHER INFORMATION: Peptide
 US-10-721-839-9

Query Match 100.0%; Score 90; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 7e-07;
 Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
 DB 1 KNLRRIRKIHIIKKYG 18

RESULT 9
 US-10-721-839-12

Sequence 12, Application US/10721839
 Publication No. US20040086535A1

GENERAL INFORMATION:
 APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.
 APPLICANT: TACK, BRIAN
 TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T

FILE REFERENCE: IOWA:035US
 CURRENT FILING DATE: 2003-11-25
 PRIOR FILING DATE: 2002-02-22

PRIOR FILING DATE: 2001-08-01
 PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-01-30
 NUMBER OF SEQ ID NOS: 32
 SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 12
 LENGTH: 18
 TYPE: PRT

ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Sy
 OTHER INFORMATION: Peptide
 US-10-721-839-12

Query Match 100.0%; Score 90; DB 4; Length 18;
 Best Local Similarity 100.0%; Pred. No. 7e-07;
 Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
 DB 1 KNLRRIRKIHIIKKYG 18

RESULT 10
 US-10-721-829-9

Sequence 9, Application US/10721829
 Publication No. US20050113776A1

GENERAL INFORMATION:
 APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: US/10/721,829
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-9

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 11
US-10-721-829-12
Sequence 12, Application US/10721829
Publication No. US2005011376A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: US/10/721,829
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-12

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 12
US-10-060-102-8
Sequence 8, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-8

Query Match 100.0%; Score 90; DB 4; Length 29
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 13
US-10-721-839-8
Sequence 8, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

US-10-721-839-8

Query Match 100.0%; Score 90; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 14

US-10-721-829-8
Sequence 8, Application US/10721829
Publication No. US20050113776A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-8

Query Match 100.0%; Score 90; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 15

US-10-060-102-10
Sequence 10, Application US/10060102
Publication No. US20030022829A1

GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-10

Query Match 97.8%; Score 88; DB 4; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

Search completed: December 16, 2005, 03:09:11
Job time : 69.028 secs

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OM protein - protein search, using sw model1

Run on: December 16, 2005, 01:11:48 ; Search time 20.1308 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-8
Perfect score: 90
Sequence: 1 KNLRRIIRKIIHIKKYG 18

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 8265679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5_COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/6_COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PTUS_COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfile1est.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	90	100.0	18 2 US-09-840-009-2	Sequence 2, Appli
2	90	100.0	18 2 US-09-840-009-9	Sequence 9, Appli
3	90	100.0	18 2 US-09-840-009-16	Sequence 16, Appli
4	90	100.0	18 2 US-09-840-009-23	Sequence 23, Appli
5	90	100.0	18 2 US-09-840-009-30	Sequence 30, Appli
6	85	94.4	18 2 US-09-840-009-4	Sequence 4, Appli
7	85	94.4	18 2 US-09-840-009-8	Sequence 8, Appli
8	85	94.4	18 2 US-09-840-009-11	Sequence 11, Appli
9	85	94.4	18 2 US-09-840-009-15	Sequence 15, Appli
10	85	94.4	18 2 US-09-840-009-18	Sequence 18, Appli
11	85	94.4	18 2 US-09-840-009-22	Sequence 22, Appli
12	85	94.4	18 2 US-09-840-009-25	Sequence 25, Appli
13	85	94.4	18 2 US-09-840-009-29	Sequence 29, Appli
14	84	93.3	18 2 US-09-840-009-5	Sequence 5, Appli
15	84	93.3	18 2 US-09-840-009-12	Sequence 12, Appli
16	84	93.3	18 2 US-09-840-009-19	Sequence 19, Appli
17	84	93.3	18 2 US-09-840-009-26	Sequence 26, Appli
18	83	92.2	18 2 US-09-840-009-6	Sequence 6, Appli
19	83	92.2	18 2 US-09-840-009-7	Sequence 7, Appli
20	83	92.2	18 2 US-09-840-009-13	Sequence 13, Appli
21	83	92.2	18 2 US-09-840-009-14	Sequence 14, Appli
22	83	92.2	18 2 US-09-840-009-20	Sequence 20, Appli
23	83	92.2	18 2 US-09-840-009-21	Sequence 21, Appli
24	83	92.2	18 2 US-09-840-009-27	Sequence 27, Appli
25	83	92.2	18 2 US-09-840-009-28	Sequence 28, Appli
26	82	91.1	18 2 US-09-840-009-3	Sequence 3, Appli
27	82	91.1	18 2 US-09-840-009-10	Sequence 10, Appli

28	82	91.1	18 2 US-09-840-009-17	Se	p1
29	82	91.1	18 2 US-09-840-009-24	Se	p1
30	82	91.1	18 2 US-09-840-009-31	Se	p1
31	76	84.4	18 2 US-09-840-009-34	Se	p1
32	76	84.4	18 2 US-09-840-009-35	Se	p1
33	74	82.2	18 2 US-09-840-009-32	Se	p1
34	74	82.2	18 2 US-09-840-009-33	Se	p1
35	70	77.8	18 2 US-09-840-009-1	Se	p1
36	65	72.2	18 2 US-09-840-009-36	Se	p1
37	65	72.2	18 2 US-09-840-009-37	Se	p1
38	57	63.3	160 2 US-09-917-340-36	Se	p1
39	50	55.6	169 2 US-09-270-767-35406	Se	A
40	50	55.6	169 2 US-09-270-767-50623	Se	A
41	50	55.6	205 2 US-09-134-001C-4766	Se	Ap
42	43.5	48.3	167 2 US-09-710-279-1502	Se	Ap
43	43.5	48.3	320 2 US-09-134-001C-3823	Se	Ap
44	43	47.8	823 2 US-09-949-016-8339	Se	Ap
45	42	46.7	24 2 US-09-785-059B-5	Se	li

ALIGNMENTS

```

RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840, 009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606, 858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          100.0%; Score 90; DB 2; Length 18:
Best Local Similarity 100.0%; Pred. No. 2.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY      1 KNLRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840, 009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606, 858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

```

LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: Synthetic antimicrobial peptide
OTHER INFORMATION: D-Isoleucine
US-09-840-009-9

Query Match 100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30

Query Match 100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1,4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
|||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
|||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
|||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
|||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
|||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

```
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-22
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Query Match          94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1 KNLRRIRKIHIIKKYG 18
        |||||
Db       1 KNLRRIRKIHIIKKYG 18
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RESULT 12
US-09-840-009-25
; Sequence 25, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25
```

```
Query Match          94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 KNLRRIRKIHIIKKYG 18
        |||||
Db       1 KNLRRIRKIHIIKKYG 18
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```
RESULT 13
US-09-840-009-29
; Sequence 29, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
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; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-alanine
US-09-840-009-29
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```
Query Match          94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;
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```
QY      1 KNLRRIRKIHIIKKYG 18
        |||||
Db       1 KNLRRIRKIHIIKKYG 18
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RESULT 14
US-09-840-009-5
; Sequence 5, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5
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Query Match          93.3%; Score 84; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 2e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;
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QY      1 KNLRRIRKIHIIKKYG 18
        |||||
Db       1 KNLRRIRKIHIIKKYG 18
```

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RESULT 15
US-09-840-009-12
; Sequence 12, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 18
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```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-640-009-12

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Query Match          93.3%; Score 84; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 2e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KNLRRIRKIIHKKYG 18
        |||||
Db       1 KNLRRISRKIIHKKYG 18

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Search completed: December 16, 2005, 01:24:07
Job time : 20.1835 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.74766 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-1
Perfect score: 90
Sequence: 1 KNLRRIIRKIIHIKKYG 18

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA New:*
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5: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
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8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Prdcd. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	90	100.0	18 7 US-11-092-496-8	Sequence 8, Appli
2	90	100.0	18 7 US-11-092-496-15	Sequence 15, Appli
3	90	100.0	18 7 US-11-092-496-22	Sequence 22, Appli
4	90	100.0	18 7 US-11-092-496-29	Sequence 29, Appli
5	89	98.9	18 7 US-11-119-581-64	Sequence 64, Appli
6	88	97.8	18 7 US-11-119-581-60	Sequence 60, Appli
7	86	95.6	18 7 US-11-119-581-59	Sequence 59, Appli
8	85	94.4	18 7 US-11-092-496-3	Sequence 3, Appli
9	85	94.4	18 7 US-11-092-496-7	Sequence 7, Appli
10	85	94.4	18 7 US-11-092-496-10	Sequence 10, Appli
11	85	94.4	18 7 US-11-092-496-17	Sequence 17, Appli
12	85	94.4	18 7 US-11-092-496-21	Sequence 21, Appli
13	85	94.4	18 7 US-11-092-496-24	Sequence 24, Appli
14	85	94.4	18 7 US-11-092-496-28	Sequence 28, Appli
15	85	94.4	18 7 US-11-119-581-61	Sequence 61, Appli
16	85	94.4	18 7 US-11-119-581-62	Sequence 62, Appli
17	85	94.4	18 7 US-11-092-496-4	Sequence 4, Appli
18	84	93.3	18 7 US-11-092-496-11	Sequence 11, Appli
19	84	93.3	18 7 US-11-092-496-18	Sequence 18, Appli
20	84	93.3	18 7 US-11-092-496-25	Sequence 25, Appli
21	84	93.3	18 7 US-11-092-496-5	Sequence 5, Appli
22	83	92.2	18 7 US-11-092-496-6	Sequence 6, Appli
23	83	92.2	18 7 US-11-092-496-12	Sequence 12, Appli
24	83	92.2	18 7 US-11-092-496-13	Sequence 13, Appli

26	83	92.2	18 7 US-11-092-496-19	Seq
27	83	92.2	18 7 US-11-092-496-20	Seq
28	83	92.2	18 7 US-11-092-496-26	Seq
29	83	92.2	18 7 US-11-092-496-27	Seq
30	83	92.2	18 7 US-11-119-581-63	Seq
31	82	91.1	18 7 US-11-092-496-2	Seq
32	82	91.1	18 7 US-11-092-496-9	Seq
33	82	91.1	18 7 US-11-092-496-16	Seq
34	82	91.1	18 7 US-11-092-496-23	Seq
35	82	91.1	18 7 US-11-119-581-1	Seq
36	81	90.0	18 7 US-11-119-581-43	Seq
37	81	90.0	18 7 US-11-119-581-78	Seq
38	81	90.0	18 7 US-11-119-581-82	Seq
39	80	88.9	18 7 US-11-119-581-25	Seq
40	80	88.9	18 7 US-11-119-581-40	Seq
41	80	88.9	18 7 US-11-119-581-45	Seq
42	80	88.9	18 7 US-11-119-581-77	Seq
43	80	88.9	18 7 US-11-119-581-80	Seq
44	79	87.8	18 7 US-11-119-581-42	Seq
45	79	87.8	18 7 US-11-119-581-56	Seq

ALIGNMENTS

RESULT 1
US-11-092-496-8
Sequence 8, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
FILE OF INVENTION: Pharmaceutical use of Novispirins
TITLE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (6)..(6)
OTHER INFORMATION: D-isoleucine
US-11-092-496-8
Query Match 100.0%; Score 90; DB 7; Length 18,
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
Cy 1 KNLRRIIRKIIHIKKYG 18
Db 1 KNLRRIIRKIIHIKKYG 18
RESULT 2
US-11-092-496-15
Sequence 15, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
FILE OF INVENTION: Pharmaceutical use of Novispirins
TITLE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 15
LENGTH: 18
TYPE: PRT

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (7)..(7)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 3

US-11-092-496-22
Sequence 22, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin version 3.3
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (10)..(10)
OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 4
US-11-092-496-29
Sequence 29, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin version 3.3
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (11)..(11)
OTHER INFORMATION: D-Isoleucine

US-11-092-496-29

Query Match 100.0%; Score 90; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.7e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 5

US-11-119-581-64
Sequence 64, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorotea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patentin version 3.3
SEQ ID NO 64
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match 98.9%; Score 89; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 2.4e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 6

US-11-119-581-60
Sequence 60, Application US/11119581
Publication No. US20050250699A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
APPLICANT: Mygind, Per Holse
APPLICANT: Segura, Dorotea Raventos
APPLICANT: Taboureau, Olivier
APPLICANT: Sonksen, Carsten Peter
TITLE OF INVENTION: Antimicrobial Peptides
FILE REFERENCE: 10646.200-US
CURRENT APPLICATION NUMBER: US/11/119,581
CURRENT FILING DATE: 2005-05-02
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patentin version 3.3
SEQ ID NO 60
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match 97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.4e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNLRRIRKIIHIKKYG 18

Db 1 KNLRRIRKIIHIKKYG 18

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Doreca Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 95.6%; Score 86; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 7e-08;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/1109296.
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIIHIKKYG 18
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 12

US-11-092-496-17
; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:

APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 13

US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:

APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (10)-(10)
OTHER INFORMATION: D-alanine
US-11-092-496-21

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNLRRIIRKIIHIKKYG 18

DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 14

US-11-092-496-24
; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:

APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 15

US-11-092-496-28
; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:

APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092,496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC_FEATURE
LOCATION: (11)-(11)
OTHER INFORMATION: D-alanine
US-11-092-496-28

Query Match 94.4%; Score 85; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 1e-07;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

Search completed: December 16, 2005, 03:10:06
Job time : 2.8003 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.74766 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-7

Perfect score: 90
Sequence: 1 KNIRRIIRKIHIIKKYG 18Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 51463 seqs, 6734788 residues

Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:*

- 1: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/PC7_NEW_PUB pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	88	97.8	18	7	US-11-092-496-8
2	88	97.8	18	7	US-11-092-496-15
3	88	97.8	18	7	US-11-092-496-22
4	88	97.8	18	7	US-11-092-496-29
5	87	96.7	18	7	US-11-119-581-64
6	86	95.6	18	7	US-11-119-581-60
7	84	93.3	18	7	US-11-119-581-59
8	83	92.2	18	7	US-11-092-496-3
9	83	92.2	18	7	US-11-092-496-7
10	83	92.2	18	7	US-11-092-496-10
11	83	92.2	18	7	US-11-092-496-14
12	83	92.2	18	7	US-11-092-496-17
13	83	92.2	18	7	US-11-092-496-21
14	83	92.2	18	7	US-11-092-496-24
15	83	92.2	18	7	US-11-092-496-28
16	83	92.2	18	7	US-11-119-581-61
17	83	92.2	18	7	US-11-119-581-62
18	82	91.1	18	7	US-11-092-496-4
19	82	91.1	18	7	US-11-092-496-11
20	82	91.1	18	7	US-11-092-496-18
21	82	91.1	18	7	US-11-092-496-25
22	82	91.1	18	7	US-11-119-581-25
23	81	90.0	18	7	US-11-092-496-5
24	81	90.0	18	7	US-11-092-496-6
25	81	90.0	18	7	US-11-092-496-12

26	81	90.0	18	7	US-11-092-496-13	Seq:
27	81	90.0	18	7	US-11-092-496-19	Seq:
28	81	90.0	18	7	US-11-092-496-20	Seq:
29	81	90.0	18	7	US-11-092-496-26	Seq:
30	81	90.0	18	7	US-11-092-496-27	Seq:
31	81	90.0	18	7	US-11-119-581-63	Seq:
32	80	88.9	18	7	US-11-092-496-2	Seq:
33	80	88.9	18	7	US-11-092-496-9	Seq:
34	80	88.9	18	7	US-11-092-496-16	Seq:
35	80	88.9	18	7	US-11-092-496-23	Seq:
36	80	88.9	18	7	US-11-119-581-1	Seq:
37	79	87.8	18	7	US-11-119-581-43	Seq:
38	79	87.8	18	7	US-11-119-581-78	Seq:
39	79	87.8	18	7	US-11-119-581-82	Seq:
40	78	86.7	18	7	US-11-119-581-26	Seq:
41	78	86.7	18	7	US-11-119-581-40	Seq:
42	78	86.7	18	7	US-11-119-581-45	Seq:
43	78	86.7	18	7	US-11-119-581-77	Seq:
44	78	86.7	18	7	US-11-119-581-80	Seq:
45	77	85.6	18	7	US-11-119-581-42	Seq:

ALIGNMENTS

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RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8
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Query Match 97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

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QY 1 KNIRRIIRKIHIIKKYG 18
Db 1 KNIRRIIRKIHIIKKYG 18

RESULT 2
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
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; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)..(7)
; OTHER INFORMATION: D-Isoleucine
US-11-092-496-15

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYKG 18

RESULT 3
US-11-092-496-22
; Sequence 22, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (10)..(10)
; OTHER INFORMATION: D-Isoleucine
US-11-092-496-22

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYKG 18

RESULT 4
US-11-092-496-29
; Sequence 29, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (11)..(11)
; OTHER INFORMATION: D-Isoleucine
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```

US-11-092-496-29

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. No. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYKG 18

RESULT 5
US-11-119-581-64
; Sequence 64, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorotea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match          96.7%; Score 87; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 5.1e-08;
Matches 16; Conservative 2; Mismatches 0; Indels 0;

QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYKG 18

RESULT 6
US-11-119-581-60
; Sequence 60, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorotea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119.581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match          95.6%; Score 86; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 7.3e-08;
Matches 16; Conservative 2; Mismatches 0; Indels 0;

QY      1 KNIRRIIRKIHIHKYKG 18
```

Db 1 KNLRRIIRKLIHIKKYG 18

RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorocea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 93.3%; Score 84; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KNIRRIIRKLIHIKKYG 18
Db 1 KNLRRIIRKFIHIKKYG 18

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KNIRRIIRKLIHIKKYG 18
Db 1 KNLRRIIRKLIHIKKYG 18

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Oy 1 KNIRRIIRKLIHIKKYG 18
Db 1 KNLRRAIRKLIHIKKYG 18

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Oy 1 KNIRRIIRKLIHIKKYG 18
Db 1 KNLRRIIRKLIHIKKYG 18

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

```
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (7)-(7)
OTHER INFORMATION: D-alanine
US-11-092-496-14
```

```
Query Match          92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
OY      1 KNIRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18
```

```
RESULT 12
US-11-092-496-17
Sequence 17, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
```

```
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 17
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17
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```
Query Match          92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
OY      1 KNIRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18
```

```
RESULT 13
```

```
US-11-092-496-21
Sequence 21, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
```

```
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (10)-(10)
OTHER INFORMATION: D-alanine
US-11-092-496-21
```

```
Query Match          92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 KNIRRIIRKIIHIKKYG 18
```

```
Db      1 KNLRRIIRKIIHIKKYG 18
```

```
RESULT 14
US-11-092-496-24
Sequence 24, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24
```

```
Query Match          92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
OY      1 KNIRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18
```

```
RESULT 15
US-11-092-496-28
Sequence 28, Application US/11092496
Publication No. US20050245452A1
GENERAL INFORMATION:
APPLICANT: Hogenhaug, Hans-Henrik Kristensen
TITLE OF INVENTION: Pharmaceutical use of Novispirins
FILE REFERENCE: 10630.204-US
CURRENT APPLICATION NUMBER: US/11/092.496
CURRENT FILING DATE: 2005-03-29
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PatentIn version 3.3
SEQ ID NO 28
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
NAME/KEY: MISC FEATURE
LOCATION: (11)-(11)
OTHER INFORMATION: D-alanine
US-11-092-496-28
```

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Query Match          92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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OY      1 KNIRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18
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Search completed: December 16, 2005, 03:10:06
Job time : 2.8003 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 69.028 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744e-7

Perfect score: 90
Sequence: 1 KNIRRIIRKIHIIKKYG 18

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBSCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBSCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBSCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBSCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBSCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBSCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	90	100.0	18	4	US-10-060-102-10
2	90	100.0	18	4	US-10-060-102-11
3	90	100.0	18	4	US-10-721-839-10
4	90	100.0	18	4	US-10-721-839-11
5	90	100.0	18	5	US-10-721-829-10
6	90	100.0	18	5	US-10-721-829-11
7	88	97.8	18	3	US-09-840-009-2
8	88	97.8	18	3	US-09-840-009-9
9	88	97.8	18	3	US-09-840-009-16
10	88	97.8	18	3	US-09-840-009-23
11	88	97.8	18	3	US-09-840-009-30
12	88	97.8	18	4	US-10-060-102-9
13	88	97.8	18	4	US-10-060-102-12
14	88	97.8	18	4	US-10-721-839-9
15	88	97.8	18	4	US-10-721-839-12
16	88	97.8	18	5	US-10-721-829-9
17	88	97.8	18	5	US-10-721-829-12
18	88	97.8	29	4	US-10-060-102-8
19	88	97.8	29	5	US-10-721-839-8
20	88	97.8	29	5	US-10-721-829-8
21	83	92.2	18	3	US-09-840-009-4
22	83	92.2	18	3	US-09-840-009-8
23	83	92.2	18	3	US-09-840-009-11
24	83	92.2	18	3	US-09-840-009-15
25	83	92.2	18	3	US-09-840-009-18
26	83	92.2	18	3	US-09-840-009-22
27	83	92.2	18	3	US-09-840-009-25

28	83	92.2	18	3	US-09-840-009-29	Se:	p1
29	83	92.2	18	4	US-10-060-102-25	Se:	p1
30	83	92.2	18	4	US-10-721-839-25	Se:	p1
31	83	92.2	18	5	US-10-721-829-25	Se:	p1
32	82	91.1	18	3	US-09-840-009-5	Se:	l1
33	82	91.1	18	3	US-09-840-009-12	Se:	p1
34	82	91.1	18	3	US-09-840-009-19	Se:	p1
35	82	91.1	18	3	US-09-840-009-26	Se:	p1
36	81	90.0	18	3	US-09-840-009-6	Se:	l1
37	81	90.0	18	3	US-09-840-009-7	Se:	l1
38	81	90.0	18	3	US-09-840-009-13	Se:	p1
39	81	90.0	18	3	US-09-840-009-14	Se:	p1
40	81	90.0	18	3	US-09-840-009-20	Se:	p1
41	81	90.0	18	3	US-09-840-009-21	Se:	p1
42	81	90.0	18	3	US-09-840-009-27	Se:	p1
43	81	90.0	18	3	US-09-840-009-28	Se:	p1
44	80	88.9	18	3	US-09-840-009-3	Se:	l1
45	80	88.9	18	3	US-09-840-009-10	Se:	p1

ALIGNMENTS

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RESULT 1
US-10-060-102-10
; Sequence 10, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOWA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-10
Query Match      100.0%; Score 90; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 5.7e-07; Indels
Matches 18; Conservative 0; Mismatches 0;
Cy      1 KNIRRIIRKIHIIKKYG 18
Db      1 KNIRRIIRKIHIIKKYG 18
RESULT 2
US-10-060-102-11
; Sequence 11, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.

```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-11

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNIRRIIRKIHIHKKYG 18

RESULT 3
US-10-721-839-10
Sequence 10, Application US/10721839
Publication No. US20040086535a1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-10

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNIRRIIRKIHIHKKYG 18

RESULT 4

US-10-721-839-11
Sequence 11, Application US/10721839
Publication No. US20040086535a1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-721-839-11

Query Match 100.0%; Score 90; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

OY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNIRRIIRKIHIHKKYG 18

RESULT 5
US-10-721-829-10
Sequence 10, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-10

Query Match 100.0%; Score 90; DB 5; Length 18;

Best Local Similarity 100.0%; Pred. No. 5.7e-07; Mismatches 0; Indels 0; Gaps 0;

Matches 18; Conservative 0;

QY 1 KNIRRIIRKIHIKKYG 18

DB 1 KNIRRIIRKIHIKKYG 18

RESULT 6

US-10-721-829-11

; Sequence 11, Application US/10721829

; Publication No. US20050113776A1

; GENERAL INFORMATION:

; APPLICANT: MAURY, WENDY

; APPLICANT: STAPLETON, JACK

; APPLICANT: ROLLER, RICHARD

; APPLICANT: STINSKI, MARK

; APPLICANT: MCCRAY, PAUL B.

; APPLICANT: TACK, BRIAN

; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

; FILE REFERENCE: IOWA:035US

; CURRENT APPLICATION NUMBER: US/10/721,829

; CURRENT FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: US/10/060,102

; PRIOR FILING DATE: 2002-02-22

; PRIOR APPLICATION NUMBER: 60/309,368

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/265,270

; NUMBER OF SEQ ID NOS: 32

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 11

; LENGTH: 18

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

; OTHER INFORMATION: Peptide

US-10-721-829-11

Query Match 100.0%; Score 90; DB 5; Length 18;

Best Local Similarity 100.0%; Pred. No. 5.7e-07; Mismatches 0; Indels 0; Gaps 0;

Matches 18; Conservative 0;

QY 1 KNIRRIIRKIHIKKYG 18

DB 1 KNIRRIIRKIHIKKYG 18

RESULT 7

US-09-840-009-2

; Sequence 2, Application US/09840009

; Patent No. US20020082195A1

; GENERAL INFORMATION:

; APPLICANT: Lehrer, Robert I.

; APPLICANT: Waring, Alan J.

; APPLICANT: Tack, Brian F.

; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES

; FILE REFERENCE: 06510-195WO

; CURRENT APPLICATION NUMBER: US/09/840,009

; CURRENT FILING DATE: 2001-04-19

; PRIOR APPLICATION NUMBER: US 09/606,858

; PRIOR FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 37

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 18

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic antimicrobial peptide

US-09-840-009-2

Query Match 97.8%; Score 88; DB 3; Length 18;

Best Local Similarity 94.4%; Pred. No. 1.2e-06; Mismatches 1; Indels 0;

Matches 17; Conservative 1;

QY 1 KNIRRIIRKIHIKKYG 18

DB 1 KNIRRIIRKIHIKKYG 18

RESULT 8

US-09-840-009-9

; Sequence 9, Application US/09840009

; Patent No. US20020082195A1

; GENERAL INFORMATION:

; APPLICANT: Lehrer, Robert I.

; APPLICANT: Waring, Alan J.

; APPLICANT: Tack, Brian F.

; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES

; FILE REFERENCE: 06510-195WO

; CURRENT APPLICATION NUMBER: US/09/840,009

; CURRENT FILING DATE: 2001-04-19

; PRIOR APPLICATION NUMBER: US 09/606,858

; PRIOR FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 37

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 9

; LENGTH: 18

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic antimicrobial peptide

; OTHER INFORMATION: D-isoleucine

US-09-840-009-9

Query Match 97.8%; Score 88; DB 3; Length 18;

Best Local Similarity 94.4%; Pred. No. 1.2e-06; Mismatches 1; Indels 0;

Matches 17; Conservative 1;

QY 1 KNIRRIIRKIHIKKYG 18

DB 1 KNIRRIIRKIHIKKYG 18

RESULT 9

US-09-840-009-16

; Sequence 16, Application US/09840009

; Patent No. US20020082195A1

; GENERAL INFORMATION:

; APPLICANT: Lehrer, Robert I.

; APPLICANT: Waring, Alan J.

; APPLICANT: Tack, Brian F.

; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES

; FILE REFERENCE: 06510-195WO

; CURRENT APPLICATION NUMBER: US/09/840,009

; CURRENT FILING DATE: 2001-04-19

; PRIOR APPLICATION NUMBER: US 09/606,858

; PRIOR FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 37

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 16

; LENGTH: 18

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic antimicrobial peptide

; OTHER INFORMATION: D-isoleucine

US-09-840-009-16

Query Match 97.8%; Score 88; DB 3; Length 18;

Best Local Similarity 94.4%; Pred. No. 1.2e-06;

Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIKKYG 18
||:|||||
Db 1 KNLRRIIRKIHIKKYG 18

RESULT 10
US-09-840-009-23
; Sequence 23, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-23

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIKKYG 18
||:|||||
Db 1 KNLRRIIRKIHIKKYG 18

RESULT 11
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIKKYG 18
||:|||||
Db 1 KNLRRIIRKIHIKKYG 18

RESULT 12
US-10-060-102-9
; Sequence 9, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-9

Query Match 97.8%; Score 88; DB 4; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIHIKKYG 18
||:|||||
Db 1 KNLRRIIRKIHIKKYG 18

RESULT 13
US-10-060-102-12
; Sequence 12, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-12

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
 ||:|||||
 Db 1 KNLRRIIRKIHIIKKYG 18

RESULT 14
 US-10-721-839-9

Sequence 9, Application US/10721839
 Publication No. US20040086535A1

GENERAL INFORMATION:
 APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN
 TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT APPLICATION NUMBER: US/10/721,839

PRIOR FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 9

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Peptide

US-10-721-839-9

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
 ||:|||||
 Db 1 KNLRRIIRKIHIIKKYG 18

RESULT 15
 US-10-721-839-12

Sequence 12, Application US/10721839

Publication No. US20040086535A1

GENERAL INFORMATION:

APPLICANT: MAURY, WENDY

APPLICANT: STAPLETON, JACK

APPLICANT: ROLLER, RICHARD

APPLICANT: STINSKI, MARK

APPLICANT: MCCRAY, PAUL B.

APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT APPLICATION NUMBER: US/10/721,839

PRIOR FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 12

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Sy

OTHER INFORMATION: Peptide

US-10-721-839-12

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
 ||:|||||
 Db 1 KNLRRIIRKIHIIKKYG 18

Search completed: December 16, 2005, 03:09:11
 Job time: 69.028 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 / Search time 20.1308 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744e-7

Perfect score: 90
Sequence: 1 KNIRRIIRKIHIKYG 18

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 10%

Listing first 45 summaries

Database:

Issued Patents AA:
1: /cgn2_6/ptodata/1/1aa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCITUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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2	88	97.8	18 2 US-09-840-009-9	Sequence 9, Appli
3	88	97.8	18 2 US-09-840-009-16	Sequence 16, Appli
4	88	97.8	18 2 US-09-840-009-23	Sequence 23, Appli
5	88	97.8	18 2 US-09-840-009-30	Sequence 30, Appli
6	83	92.2	18 2 US-09-840-009-4	Sequence 4, Appli
7	83	92.2	18 2 US-09-840-009-8	Sequence 8, Appli
8	83	92.2	18 2 US-09-840-009-11	Sequence 11, Appli
9	83	92.2	18 2 US-09-840-009-15	Sequence 15, Appli
10	83	92.2	18 2 US-09-840-009-18	Sequence 18, Appli
11	83	92.2	18 2 US-09-840-009-22	Sequence 22, Appli
12	83	92.2	18 2 US-09-840-009-25	Sequence 25, Appli
13	83	92.2	18 2 US-09-840-009-29	Sequence 29, Appli
14	82	91.1	18 2 US-09-840-009-5	Sequence 5, Appli
15	82	91.1	18 2 US-09-840-009-12	Sequence 12, Appli
16	82	91.1	18 2 US-09-840-009-19	Sequence 19, Appli
17	82	91.1	18 2 US-09-840-009-26	Sequence 26, Appli
18	81	90.0	18 2 US-09-840-009-6	Sequence 6, Appli
19	81	90.0	18 2 US-09-840-009-7	Sequence 7, Appli
20	81	90.0	18 2 US-09-840-009-13	Sequence 13, Appli
21	81	90.0	18 2 US-09-840-009-14	Sequence 14, Appli
22	81	90.0	18 2 US-09-840-009-20	Sequence 20, Appli
23	81	90.0	18 2 US-09-840-009-21	Sequence 21, Appli
24	81	90.0	18 2 US-09-840-009-27	Sequence 27, Appli
25	81	90.0	18 2 US-09-840-009-28	Sequence 28, Appli
26	80	88.9	18 2 US-09-840-009-3	Sequence 3, Appli
27	80	88.9	18 2 US-09-840-009-10	Sequence 10, Appli

28	80	88.9	18 2 US-09-840-009-17	Seq
29	80	88.9	18 2 US-09-840-009-24	Seq
30	80	88.9	18 2 US-09-840-009-31	Seq
31	74	82.2	18 2 US-09-840-009-34	Seq
32	74	82.2	18 2 US-09-840-009-35	Seq
33	72	80.0	18 2 US-09-840-009-32	Seq
34	72	80.0	18 2 US-09-840-009-33	Seq
35	68	75.6	18 2 US-09-840-009-1	Seq
36	63	70.0	18 2 US-09-840-009-36	Seq
37	63	70.0	18 2 US-09-840-009-37	Seq
38	55	61.1	160 2 US-09-917-340-36	Seq
39	52	57.8	169 2 US-09-270-767-35406	Seq
40	52	57.8	169 2 US-09-270-767-50623	Seq
41	48	53.3	205 2 US-09-134-001C-4766	Seq
42	44	48.9	24 2 US-09-785-059B-5	Seq
43	44	48.9	24 2 US-10-079-075-5	Seq
44	44	48.9	36 2 US-09-785-059B-6	Seq
45	44	48.9	36 2 US-10-079-075-6	Seq

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/840.009
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match          97.8%  Score 88; DB 2; Length 18;
Matches 17; Conservative 1; Mismatches 0; Indels 0;
QY      1 KNIRRIIRKIHIKYG 18
DB      1 KNIRRIIRKIHIKYG 18
RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT FILING DATE: 2001-04-19
; CURRENT APPLICATION NUMBER: US/09/840.009
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9

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/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-Isoleucine
US-09-840-009-9
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Query Match          97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KNIRRIIRKIHIHKYK 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYK 18
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RESULT 3

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US-09-840-009-16
/ Sequence 16, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Waring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195W0
/ CURRENT APPLICATION NUMBER: US/09/840.009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 16
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-Isoleucine
US-09-840-009-16
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Query Match          97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 KNIRRIIRKIHIHKYK 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYK 18
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RESULT 4

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US-09-840-009-23
/ Sequence 23, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Waring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195W0
/ CURRENT APPLICATION NUMBER: US/09/840.009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 23
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
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/ OTHER INFORMATION: D-Isoleucine
US-09-840-009-23
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```
Query Match          97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;
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```
Qy      1 KNIRRIIRKIHIHKYK 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYK 18
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RESULT 5

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US-09-840-009-30
/ Sequence 30, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Waring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195W0
/ CURRENT APPLICATION NUMBER: US/09/840.009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 30
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-Isoleucine
US-09-840-009-30
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```
Query Match          97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;
```

```
Qy      1 KNIRRIIRKIHIHKYK 18
       ||:|||||
Db      1 KNLRRIIRKIHIHKYK 18
```

RESULT 6

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US-09-840-009-4
/ Sequence 4, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Waring, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195W0
/ CURRENT APPLICATION NUMBER: US/09/840.009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4
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Query Match          92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;
```

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 9

US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRIRKIIHIKKYG 18

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-22

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
||:|||||
Db 1 KNLRRIIRKIAHIHKYK 18

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehter, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
||:|||||
Db 1 KNLRRIIRKIAHIHKYK 18

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehter, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-29

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KNIRRIIRKIHIHKYK 18
||:|||||
Db 1 KNLRRIIRKIAHIHKYK 18

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehter, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 91.1%; Score 82; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 3.6e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KNIRRIIRKIHIHKYK 18
||:|||||
Db 1 KNLRRIIRKIAHIHKYK 18

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehter, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIORITY APPLICATION NUMBER: US 09/606,858
PRIORITY FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

Query Match 91.1%; Score 82; DB 2; Length 18;
Best Local Similarity 88.9%; Pred No. 3.6e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KNIRRIIRKIIIIKKYG 18
Db 1 KNLRIRISRKIIIIKKYG 18

Search completed: December 16, 2005, 01:24:07
Job time : 21.1835 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 / Search time 69.028 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-6

Sequence: 1 KNIRRIIRKIHIKTYG 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:*

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3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	90	100.0	18 4 US-10-060-102-10	Sequence 10, Appl
2	90	100.0	18 4 US-10-060-102-11	Sequence 11, Appl
3	90	100.0	18 4 US-10-721-839-10	Sequence 10, Appl
4	90	100.0	18 4 US-10-721-839-11	Sequence 11, Appl
5	90	100.0	18 5 US-10-721-829-10	Sequence 10, Appl
6	90	100.0	18 5 US-10-721-829-11	Sequence 11, Appl
7	88	97.8	18 3 US-09-840-009-2	Sequence 2, Appl
8	88	97.8	18 3 US-09-840-009-9	Sequence 9, Appl
9	88	97.8	18 3 US-09-840-009-16	Sequence 16, Appl
10	88	97.8	18 3 US-09-840-009-23	Sequence 23, Appl
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12	88	97.8	18 4 US-10-060-102-9	Sequence 9, Appl
13	88	97.8	18 4 US-10-060-102-12	Sequence 12, Appl
14	88	97.8	18 4 US-10-721-839-9	Sequence 9, Appl
15	88	97.8	18 4 US-10-721-839-12	Sequence 12, Appl
16	88	97.8	18 5 US-10-721-829-9	Sequence 9, Appl
17	88	97.8	18 5 US-10-721-829-12	Sequence 12, Appl
18	88	97.8	29 4 US-10-060-102-8	Sequence 8, Appl
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21	83	92.2	18 3 US-09-840-009-4	Sequence 4, Appl
22	83	92.2	18 3 US-09-840-009-8	Sequence 8, Appl
23	83	92.2	18 3 US-09-840-009-11	Sequence 11, Appl
24	83	92.2	18 3 US-09-840-009-15	Sequence 15, Appl
25	83	92.2	18 3 US-09-840-009-18	Sequence 18, Appl
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27	83	92.2	18 3 US-09-840-009-25	Sequence 25, Appl

28	83	92.2	18 3 US-09-840-009-29	Se	p1
29	83	92.2	18 4 US-10-060-102-25	Se	p1
30	83	92.2	18 4 US-10-721-839-25	Se	p1
31	83	92.2	18 5 US-10-721-829-25	Se	p1
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34	82	91.1	18 3 US-09-840-009-19	Se	p1
35	82	91.1	18 3 US-09-840-009-26	Se	p1
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38	81	90.0	18 3 US-09-840-009-13	Se	p1
39	81	90.0	18 3 US-09-840-009-14	Se	p1
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ALIGNMENTS

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RESULT 1
US-10-060-102-10
; Sequence 10, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE T
; FILE REFERENCE: IOMA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
US-10-060-102-10
Query Match 100.0%; Score 90; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
Cy 1 KNIRRIIRKIHIKTYG 18
Db 1 KNIRRIIRKIHIKTYG 18
RESULT 2
US-10-060-102-11
; Sequence 11, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
```

APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-060-102-11

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
1 KNIRRIIRKIIHIKKYG 18
DB

RESULT 3

US-10-721-839-10
Sequence 10, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-839-10

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
1 KNIRRIIRKIIHIKKYG 18
DB

RESULT 4

US-10-721-839-11
Sequence 11, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-839-11

Query Match 100.0%; Score 90; DB 4; Length 18
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
1 KNIRRIIRKIIHIKKYG 18
DB

RESULT 5

US-10-721-829-10
Sequence 10, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:
APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-721-829-10

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KNIRRIIRKIIHIKKYG 18
Db 1 KNIRRIIRKIIHIKKYG 18

RESULT 6
US-10-721-829-11
; Sequence 11, Application US/10721829
; Publication No. US20050113776A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMAL
; FILE REFERENCE: IOWA:035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-721-829-11

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 5.7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIIHIKKYG 18
Db 1 KNIRRIIRKIIHIKKYG 18

RESULT 7
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIIHIKKYG 18
Db 1 KNIRRIIRKIIHIKKYG 18

RESULT 8
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-9

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIIHIKKYG 18
Db 1 KNIRRIIRKIIHIKKYG 18

RESULT 9
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-isoleucine
US-09-840-009-16

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;

Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 10
US-09-640-009-23

; Sequence 23, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Marling, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-640-009-23

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 11
US-09-640-009-30

; Sequence 30, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Marling, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-640-009-30

Query Match 97.8%; Score 88; DB 3; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 12
US-10-060-102-9

; Sequence 9, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; APPLICANT: TACK, BRIAN
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060.102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-060-102-9

Query Match 97.8%; Score 88; DB 4; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.2e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 13
US-10-060-102-12

; Sequence 12, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060.102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Syn
; OTHER INFORMATION: Peptide
US-10-060-102-12

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
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 Db 1 KNLRIIRKIHIIKKYG 18

RESULT 14

US-10-721-839-9
 ; Sequence 9, Application US/10721839
 ; Publication No. US20040086535A1
 ; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.
 APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 TITLE OF INVENTION: CATHELICIDINS

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 9

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-10-721-839-9

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
 ||:|||||
 Db 1 KNLRIIRKIHIIKKYG 18

RESULT 15

US-10-721-839-12
 ; Sequence 12, Application US/10721839
 ; Publication No. US20040086535A1
 ; GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
 APPLICANT: STAPLETON, JACK
 APPLICANT: ROLLER, RICHARD
 APPLICANT: STINSKI, MARK
 APPLICANT: MCCRAY, PAUL B.
 APPLICANT: TACK, BRIAN

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
 TITLE OF INVENTION: CATHELICIDINS

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 12

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-12

Query Match 97.8%; Score 88; DB 4; Length 18;
 Best Local Similarity 94.4%; Pred. No. 1.2e-06;
 Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNIRRIIRKIHIIKKYG 18
 ||:|||||
 Db 1 KNLRIIRKIHIIKKYG 18

Search completed: December 16, 2005, 03:09:11
 Job time : 70.028 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:18:12 ; Search time 2.74766 Seconds
(without alignments)
44.120 Million cell updates/sec

Title: US-09-642-744E-6
Perfect score: 90
Sequence: 1 KNIRRIIRKIHIIKKYG 18

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 51463

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	88	97.8	18	7	US-11-092-496-29
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6	86	95.6	18	7	US-11-119-581-60
7	84	93.3	18	7	US-11-119-581-59
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9	83	92.2	18	7	US-11-092-496-7
10	83	92.2	18	7	US-11-092-496-10
11	83	92.2	18	7	US-11-092-496-14
12	83	92.2	18	7	US-11-092-496-17
13	83	92.2	18	7	US-11-092-496-21
14	83	92.2	18	7	US-11-092-496-24
15	83	92.2	18	7	US-11-092-496-28
16	83	92.2	18	7	US-11-119-581-61
17	83	92.2	18	7	US-11-119-581-62
18	82	91.1	18	7	US-11-092-496-4
19	82	91.1	18	7	US-11-092-496-11
20	82	91.1	18	7	US-11-092-496-18
21	82	91.1	18	7	US-11-092-496-25
22	82	91.1	18	7	US-11-119-581-25
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25	81	90.0	18	7	US-11-092-496-12

26	81	90.0	18	7	US-11-092-496-13	Se:
27	81	90.0	18	7	US-11-092-496-19	Se:
28	81	90.0	18	7	US-11-092-496-20	Se:
29	81	90.0	18	7	US-11-092-496-26	Se:
30	81	90.0	18	7	US-11-092-496-27	Se:
31	81	90.0	18	7	US-11-119-581-63	Se:
32	80	88.9	18	7	US-11-092-496-2	Se:
33	80	88.9	18	7	US-11-092-496-9	Se:
34	80	88.9	18	7	US-11-092-496-16	Se:
35	80	88.9	18	7	US-11-092-496-23	Se:
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38	79	87.8	18	7	US-11-119-581-78	Se:
39	79	87.8	18	7	US-11-119-581-82	Se:
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42	78	86.7	18	7	US-11-119-581-45	Se:
43	78	86.7	18	7	US-11-119-581-77	Se:
44	78	86.7	18	7	US-11-119-581-80	Se:
45	77	85.6	18	7	US-11-119-581-42	Se:

ALIGNMENTS

RESULT 1
US-11-092-496-8
; Sequence 8, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)..(6)
; OTHER INFORMATION: D-isoleucine
US-11-092-496-8

Query Match 97.8%, Score 88, DB 7, Length 18;
Best Local Similarity 94.4%, Pred. No. 3.6e-08;
Matches 17, Conservative 1, Mismatches 0, Indels 0;

QY 1 KNIRRIIRKIHIIKKYG 18
DB 1 KNIRRIIRKIHIIKKYG 18
US-11-092-496-15
; Sequence 15, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirtins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT

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; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)..(7)
; OTHER INFORMATION: D-IsoIeucine
US-11-092-496-15

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. NO. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 3
US-11-092-496-22
; Sequence 22, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 18
; TYPE: PRF
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (10)..(10)
; OTHER INFORMATION: D-IsoIeucine
US-11-092-496-22

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. NO. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 4
US-11-092-496-29
; Sequence 29, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novaspirlins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 29
; LENGTH: 18
; TYPE: PRF
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC_FEATURE
; LOCATION: (11)..(11)
; OTHER INFORMATION: D-IsoIeucine
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US-11-092-496-29

Query Match          97.8%; Score 88; DB 7; Length 18;
Best Local Similarity 94.4%; Pred. NO. 3.6e-08;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 5
US-11-119-581-64
; Sequence 64, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorothea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64
; LENGTH: 18
; TYPE: PRF
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-64

Query Match          96.7%; Score 87; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. NO. 5.1e-08;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
Db 1 KNLRRIIRKIHIHKYK 18

RESULT 6
US-11-119-581-60
; Sequence 60, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorothea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Sonksen, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646.200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 60
; LENGTH: 18
; TYPE: PRF
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-60

Query Match          95.6%; Score 86; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. NO. 7.3e-08;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNIRRIIRKIHIHKYK 18
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Db 1 KNLRRIRKRIHIKKYG 18
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RESULT 7

US-11-119-581-59
; Sequence 59, Application US/11119581
; Publication No. US20050250699A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; APPLICANT: Mygind, Per Holse
; APPLICANT: Segura, Dorothea Raventos
; APPLICANT: Taboureau, Olivier
; APPLICANT: Solsken, Carsten Peter
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: 10646-200-US
; CURRENT APPLICATION NUMBER: US/11/119,581
; CURRENT FILING DATE: 2005-05-02
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial polypeptide
US-11-119-581-59

Query Match 93.3%; Score 84; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.5e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKRIHIKKYG 18
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Db 1 KNLRRIRKRIHIKKYG 18

RESULT 8

US-11-092-496-3
; Sequence 3, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-3

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KNLRRIRKRIHIKKYG 18
||:|||||:|||||
Db 1 KNLRRIRKRIHIKKYG 18

RESULT 9

US-11-092-496-7
; Sequence 7, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins

; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; NAME/KEY: MISC FEATURE
; LOCATION: (6)-(6)
; OTHER INFORMATION: D-alanine
US-11-092-496-7

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKRIHIKKYG 18
||:|||||:|||||
Db 1 KNLRRIRKRIHIKKYG 18

RESULT 10

US-11-092-496-10
; Sequence 10, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-10

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKRIHIKKYG 18
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Db 1 KNLRRIRKRIHIKKYG 18

RESULT 11

US-11-092-496-14
; Sequence 14, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092,496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide

FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (7)-(7)
; OTHER INFORMATION: D-alanine
US-11-092-496-14

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNLRRIIRKIHIHKKYG 18

RESULT 12
US-11-092-496-17
; Sequence 17, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 17
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-17

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNLRRIIRKIHIHKKYG 18

RESULT 13
US-11-092-496-21
; Sequence 21, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-21

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNLRRIIRKIHIHKKYG 18

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKKYG 18

DB 1 KNLRRIIRKIHIHKKYG 18

RESULT 14
US-11-092-496-24
; Sequence 24, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-24

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

QY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNLRRIIRKIHIHKKYG 18

RESULT 15
US-11-092-496-28
; Sequence 28, Application US/11092496
; Publication No. US20050245452A1
; GENERAL INFORMATION:
; APPLICANT: Hogenhaug, Hans-Henrik Kristensen
; TITLE OF INVENTION: Pharmaceutical use of Novispirins
; FILE REFERENCE: 10630.204-US
; CURRENT APPLICATION NUMBER: US/11/092.496
; CURRENT FILING DATE: 2005-03-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-11-092-496-28

Query Match 92.2%; Score 83; DB 7; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.1e-07;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

QY 1 KNIRRIIRKIHIHKKYG 18
DB 1 KNLRRIIRKIHIHKKYG 18

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Job time : 2.8003 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 20.1308 Seconds
(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-6
Perfect score: 90
Sequence: 1 KNIRRIIRKIHIIKYG 18

Scoring table:
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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 8265679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
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6: /cgn2_6/ptodata/1/1aa/backfill1es1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	88	97.8	18 2 US-09-840-009-9	Sequence 9, Appli
3	88	97.8	18 2 US-09-840-009-16	Sequence 16, Appli
4	88	97.8	18 2 US-09-840-009-23	Sequence 23, Appli
5	88	97.8	18 2 US-09-840-009-30	Sequence 30, Appli
6	83	92.2	18 2 US-09-840-009-4	Sequence 4, Appli
7	83	92.2	18 2 US-09-840-009-8	Sequence 8, Appli
8	83	92.2	18 2 US-09-840-009-11	Sequence 11, Appli
9	83	92.2	18 2 US-09-840-009-15	Sequence 15, Appli
10	83	92.2	18 2 US-09-840-009-18	Sequence 18, Appli
11	83	92.2	18 2 US-09-840-009-22	Sequence 22, Appli
12	83	92.2	18 2 US-09-840-009-25	Sequence 25, Appli
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14	82	91.1	18 2 US-09-840-009-5	Sequence 5, Appli
15	82	91.1	18 2 US-09-840-009-12	Sequence 12, Appli
16	82	91.1	18 2 US-09-840-009-19	Sequence 19, Appli
17	82	91.1	18 2 US-09-840-009-26	Sequence 26, Appli
18	81	90.0	18 2 US-09-840-009-6	Sequence 6, Appli
19	81	90.0	18 2 US-09-840-009-7	Sequence 7, Appli
20	81	90.0	18 2 US-09-840-009-13	Sequence 13, Appli
21	81	90.0	18 2 US-09-840-009-14	Sequence 14, Appli
22	81	90.0	18 2 US-09-840-009-20	Sequence 20, Appli
23	81	90.0	18 2 US-09-840-009-21	Sequence 21, Appli
24	81	90.0	18 2 US-09-840-009-27	Sequence 27, Appli
25	81	90.0	18 2 US-09-840-009-28	Sequence 28, Appli
26	80	88.9	18 2 US-09-840-009-3	Sequence 3, Appli
27	80	88.9	18 2 US-09-840-009-10	Sequence 10, Appli

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ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Brian J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US/09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match          97.8% Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY      1 KNIRRIIRKIHIIKYG 18
DB      1 KNIRRIIRKIHIIKYG 18

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Maring, Brian J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; CURRENT APPLICATION NUMBER: US/09/606, 858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9
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LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-9

Query Match 97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKYK 18
DB 1 KNLRRIIRKIHIHKYK 18

RESULT 3
US-09-840-009-16
Sequence 16, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-16

Query Match 97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNIRRIIRKIHIHKYK 18
DB 1 KNLRRIIRKIHIHKYK 18

RESULT 4
US-09-840-009-23
Sequence 23, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide

OTHER INFORMATION: D-Isoleucine
US-09-840-009-23

Query Match 97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNIRRIIRKIHIHKYK 18
DB 1 KNLRRIIRKIHIHKYK 18

RESULT 5
US-09-840-009-30
Sequence 30, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-30

Query Match 97.8%; Score 88; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 4.4e-07;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

QY 1 KNIRRIIRKIHIHKYK 18
DB 1 KNLRRIIRKIHIHKYK 18

RESULT 6
US-09-840-009-4
Sequence 4, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehrer, Robert I.
APPLICANT: Waring, Alan J.
TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRITRKIIHIKKYG 18

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRITRKIIHIKKYG 18

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRITRKIIHIKKYG 18

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRITRKIIHIKKYG 18

RESULT 10
US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195W0
; CURRENT APPLICATION NUMBER: US/09/840.009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;

OY 1 KNIRRIIRKIIHIKKYG 18
||:|||||
Db 1 KNLRRITRKIIHIKKYG 18

RESULT 11
US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

```
/ APPLICANT: Marling, Alan J.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195WO
/ CURRENT APPLICATION NUMBER: US/09/840,009
/ PRIOR FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 22
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-alanine
US-09-840-009-22
```

```
Query Match          92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIAHIHKYKG 18
```

```
RESULT 12
US-09-840-009-25
/ Sequence 25, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Marling, Alan J.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195WO
/ CURRENT APPLICATION NUMBER: US/09/840,009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 25
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25
```

```
Query Match          92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIAHIHKYKG 18
```

```
RESULT 13
US-09-840-009-29
/ Sequence 29, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Marling, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195WO
/ CURRENT APPLICATION NUMBER: US/09/840,009
/ CURRENT FILING DATE: 2001-04-19
```

```
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 29
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
/ OTHER INFORMATION: D-alanine
US-09-840-009-29
```

```
Query Match          92.2%; Score 83; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 2.5e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;
```

```
QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIAHIHKYKG 18
```

```
RESULT 14
US-09-840-009-5
/ Sequence 5, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Marling, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195WO
/ CURRENT APPLICATION NUMBER: US/09/840,009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 5
/ LENGTH: 18
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5
```

```
Query Match          91.1%; Score 82; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 3.6e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0;
```

```
QY      1 KNIRRIIRKIHIHKYKG 18
       ||:|||||
Db      1 KNLRRIIRKIAHIHKYKG 18
```

```
RESULT 15
US-09-840-009-12
/ Sequence 12, Application US/09840009
/ Patent No. 6492328
/ GENERAL INFORMATION:
/ APPLICANT: Lehrer, Robert I.
/ APPLICANT: Marling, Alan J.
/ APPLICANT: Tack, Brian F.
/ TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
/ FILE REFERENCE: 06510-195WO
/ CURRENT APPLICATION NUMBER: US/09/840,009
/ CURRENT FILING DATE: 2001-04-19
/ PRIOR APPLICATION NUMBER: US 09/606,858
/ PRIOR FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 37
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 12
/ LENGTH: 18
```



```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

```

```

Query Match      91.1%; Score 82; DB 2; Length 18;
Best Local Similarity 88.9%; Pred. No. 3.6e-06;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

OY      1 KNIRRIIRKIIHIKKYG 18
      ||:|||||
Db      1 KNLRRIISRKIIHIKKYG 18

```

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Search completed: December 16, 2005, 01:24:06
Job time : 20.1835 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:17:52 ; Search time 69.028 Seconds
(without alignments)
108.955 Million cell updates/sec

Title: US-09-642-744E-1
Sequence: 1 KNLRRIIRKIIHIKKYG 18

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	90	100.0	18	3	US-09-840-009-2
2	90	100.0	18	3	US-09-840-009-9
3	90	100.0	18	3	US-09-840-009-16
4	90	100.0	18	3	US-09-840-009-23
5	90	100.0	18	3	US-09-840-009-30
6	90	100.0	18	4	US-10-060-102-9
7	90	100.0	18	4	US-10-060-102-12
8	90	100.0	18	4	US-10-721-839-9
9	90	100.0	18	4	US-10-721-839-12
10	90	100.0	18	5	US-10-721-829-9
11	90	100.0	18	5	US-10-721-829-12
12	90	100.0	29	4	US-10-060-102-8
13	90	100.0	29	4	US-10-721-839-8
14	90	100.0	29	5	US-10-721-829-8
15	88	97.8	18	4	US-10-060-102-10
16	88	97.8	18	4	US-10-060-102-11
17	88	97.8	18	4	US-10-721-839-10
18	88	97.8	18	4	US-10-721-839-11
19	88	97.8	18	5	US-10-721-829-11
20	88	97.8	18	5	US-10-721-829-11
21	85	94.4	18	3	US-09-840-009-4
22	85	94.4	18	3	US-09-840-009-8
23	85	94.4	18	3	US-09-840-009-11
24	85	94.4	18	3	US-09-840-009-15
25	85	94.4	18	3	US-09-840-009-18
26	85	94.4	18	3	US-09-840-009-22
27	85	94.4	18	3	US-09-840-009-25

28	85	94.4	18	3	US-09-840-009-29	Seq
29	85	94.4	18	4	US-10-060-102-25	Seq
30	85	94.4	18	4	US-10-721-839-25	Seq
31	85	94.4	18	5	US-10-721-829-25	Seq
32	84	93.3	18	3	US-09-840-009-5	Seq
33	84	93.3	18	3	US-09-840-009-12	Seq
34	84	93.3	18	3	US-09-840-009-19	Seq
35	84	93.3	18	3	US-09-840-009-26	Seq
36	83	92.2	18	3	US-09-840-009-6	Seq
37	83	92.2	18	3	US-09-840-009-13	Seq
38	83	92.2	18	3	US-09-840-009-14	Seq
39	83	92.2	18	3	US-09-840-009-20	Seq
40	83	92.2	18	3	US-09-840-009-21	Seq
41	83	92.2	18	3	US-09-840-009-27	Seq
42	83	92.2	18	3	US-09-840-009-28	Seq
43	82	91.1	18	3	US-09-840-009-3	Seq
44	82	91.1	18	3	US-09-840-009-10	Seq
45	82	91.1	18	3	US-09-840-009-10	Seq

ALIGNMENTS

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2

Query Match      100.0%; Score 90; DB 3; Length 18,
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

Oy      1 KNLRRIIRKIIHIKKYG 18
Db      1 KNLRRIIRKIIHIKKYG 18

RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
```

```

; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-9
```

```
Query Match          100.0%; Score 90; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KNLRRIRKIIHIKKYG 18
        |||||
Db       1 KNLRRIRKIIHIKKYG 18
```

```

RESULT 3
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-16
```

```
Query Match          100.0%; Score 90; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KNLRRIRKIIHIKKYG 18
        |||||
Db       1 KNLRRIRKIIHIKKYG 18
```

```

RESULT 4
US-09-840-009-23
; Sequence 23, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
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```

; OTHER INFORMATION: D-Isoleucine
US-09-840-009-23
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```
Query Match          100.0%; Score 90; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
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```
QY      1 KNLRRIRKIIHIKKYG 18
        |||||
Db       1 KNLRRIRKIIHIKKYG 18
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```

RESULT 5
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. US20020082195A1
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195MO
; CURRENT APPLICATION NUMBER: US/09/840,009
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-30
```

```
Query Match          100.0%; Score 90; DB 3; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
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```
QY      1 KNLRRIRKIIHIKKYG 18
        |||||
Db       1 KNLRRIRKIIHIKKYG 18
```

```

RESULT 6
US-10-060-102-9
; Sequence 9, Application US/10060102
; Publication No. US20030022829A1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTI-VIRAL ACTIVITIES OF PRIMATE TH
; TITLE OF INVENTION: CATHELICIDINS
; FILE REFERENCE: IOWA.035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Peptide
US-10-060-102-9

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 7
US-10-060-102-12
Sequence 12, Application US/10060102
Publication No. US20030022829A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 12

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-10-060-102-12

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 8
US-10-721-839-9
Sequence 9, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9

LENGTH: 18

TYPE: PRT
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-9

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 9
US-10-721-839-12
Sequence 12, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/265,270

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 12

LENGTH: 18

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Sy

US-10-721-839-12

Query Match 100.0%; Score 90; DB 4; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

QY 1 KNLRRIIRKIIHIKKYG 18
DB 1 KNLRRIIRKIIHIKKYG 18

RESULT 10
US-10-721-829-9
Sequence 9, Application US/10721829
Publication No. US20050113776A1
GENERAL INFORMATION:

APPLICANT: MAURY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK

TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI

FILE REFERENCE: IOWA:035US

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: US/10/060,102

PRIOR FILING DATE: 2002-02-22

PRIOR APPLICATION NUMBER: 60/309,368

PRIOR FILING DATE: 2001-08-01

APPLICANT: MCCRAY, PAUL B.
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-9

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 11
US-10-721-829-12
Sequence 12, Application US/10721829
Publication No. US2005011376A1
GENERAL INFORMATION:
APPLICANT: MAUDRY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,829
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-721-829-12

Query Match 100.0%; Score 90; DB 5; Length 18;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 12
US-10-060-102-8
Sequence 8, Application US/10060102
Publication No. US2003022829A1
GENERAL INFORMATION:
APPLICANT: MAUDRY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/060,102
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn
US-10-060-102-8

Query Match 100.0%; Score 90; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

RESULT 13
US-10-721-839-8
Sequence 8, Application US/10721839
Publication No. US20040086535A1
GENERAL INFORMATION:
APPLICANT: MAUDRY, WENDY
APPLICANT: STAPLETON, JACK
APPLICANT: ROLLER, RICHARD
APPLICANT: STINSKI, MARK
APPLICANT: MCCRAY, PAUL B.
APPLICANT: TACK, BRIAN
TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE TH
FILE REFERENCE: IOWA:035US
CURRENT APPLICATION NUMBER: US/10/721,839
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: US/10/060,102
PRIOR FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/309,368
PRIOR FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/265,270
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 29
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Syn

Query Match 100.0%; Score 90; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0;

OY 1 KNLRRIRKIIHIKKYG 18
DB 1 KNLRRIRKIIHIKKYG 18

US-10-721-839-8

Query Match 100.0%; Score 90; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRRIIRKIHIIKKYG 18
Db 1 KNLRRIIRKIHIIKKYG 18

RESULT 14

US-10-721-829-8
; Sequence 8, Application US/10721829
; Publication No. US2005011376a1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOMA-035US
; CURRENT APPLICATION NUMBER: US/10/721,829
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: US/10/060,102
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; US-10-721-829-8

Query Match 100.0%; Score 90; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KNLRRIIRKIHIIKKYG 18
Db 1 KNLRRIIRKIHIIKKYG 18

RESULT 15

US-10-060-102-10
; Sequence 10, Application US/10060102
; Publication No. US20030022829a1
; GENERAL INFORMATION:
; APPLICANT: MAURY, WENDY
; APPLICANT: STAPLETON, JACK
; APPLICANT: ROLLER, RICHARD
; APPLICANT: STINSKI, MARK
; APPLICANT: MCCRAY, PAUL B.
; TITLE OF INVENTION: NOVEL ANTIVIRAL ACTIVITIES OF PRIMATE THETA DEFENSINS AND MAMMALI
; FILE REFERENCE: IOMA-035US
; CURRENT APPLICATION NUMBER: US/10/060,102
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/309,368
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/265,270
; PRIOR FILING DATE: 2001-01-30

NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Sy
; US-10-060-102-10

Query Match 97.8%; Score 88; DB 4; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 1; Mismatches 0; Indels 0;

Qy 1 KNLRRIIRKIHIIKKYG 18
Db 1 KNLRRIIRKIHIIKKYG 18

Search completed: December 16, 2005, 03:09:10
Job time : 69.028 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 01:11:48 ; Search time 20.1308 Seconds

(without alignments)
73.924 Million cell updates/sec

Title: US-09-642-744E-1

Perfect score: 90

Sequence: 1 KNLRRIIRKTIHIKKYG 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/1aa/PTUS_COMB.pep:*

5: /cgn2_6/ptodata/1/1aa/RS_COMB.pep:*

6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description.
1	90	100.0	18	2	US-09-840-009-2
2	90	100.0	18	2	US-09-840-009-9
3	90	100.0	18	2	US-09-840-009-16
4	90	100.0	18	2	US-09-840-009-23
5	90	100.0	18	2	US-09-840-009-30
6	85	94.4	18	2	US-09-840-009-4
7	85	94.4	18	2	US-09-840-009-8
8	85	94.4	18	2	US-09-840-009-11
9	85	94.4	18	2	US-09-840-009-15
10	85	94.4	18	2	US-09-840-009-18
11	85	94.4	18	2	US-09-840-009-22
12	85	94.4	18	2	US-09-840-009-25
13	85	94.4	18	2	US-09-840-009-29
14	84	93.3	18	2	US-09-840-009-5
15	84	93.3	18	2	US-09-840-009-12
16	84	93.3	18	2	US-09-840-009-19
17	84	93.3	18	2	US-09-840-009-26
18	83	92.2	18	2	US-09-840-009-6
19	83	92.2	18	2	US-09-840-009-7
20	83	92.2	18	2	US-09-840-009-13
21	83	92.2	18	2	US-09-840-009-14
22	83	92.2	18	2	US-09-840-009-20
23	83	92.2	18	2	US-09-840-009-21
24	83	92.2	18	2	US-09-840-009-27
25	83	92.2	18	2	US-09-840-009-28
26	82	91.1	18	2	US-09-840-009-3
27	82	91.1	18	2	US-09-840-009-10

ALIGNMENTS

28	82	91.1	18	2	US-09-840-009-17	Se
29	82	91.1	18	2	US-09-840-009-24	Se
30	82	91.1	18	2	US-09-840-009-31	Se
31	76	84.4	18	2	US-09-840-009-34	Se
32	76	84.4	18	2	US-09-840-009-35	Se
33	74	82.2	18	2	US-09-840-009-32	Se
34	74	82.2	18	2	US-09-840-009-33	Se
35	70	77.8	18	2	US-09-840-009-1	Se
36	65	72.2	18	2	US-09-840-009-36	Se
37	65	72.2	18	2	US-09-840-009-37	Se
38	57	63.3	160	2	US-09-917-340-36	Se
39	50	55.6	169	2	US-09-270-767-50623	Se
40	50	55.6	169	2	US-09-270-767-50623	Se
41	50	55.6	205	2	US-09-134-001C-4766	Se
42	43.5	48.3	167	2	US-09-710-279-1502	Se
43	43.5	48.3	320	2	US-09-134-001C-3823	Se
44	43	47.8	823	2	US-09-949-016-8339	Se
45	42	46.7	24	2	US-09-785-059B-5	Se

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RESULT 1
US-09-840-009-2
; Sequence 2, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert J.
; APPLICANT: Waring, Robert J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-2
Query Match 100.0%; Score 90; DB 2; Length 18
Best Local Similarity 100.0%; Pred. No. 2.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
Cy 1 KNLRRIIRKTIHIKKYG 18
Db 1 KNLRRIIRKTIHIKKYG 18
RESULT 2
US-09-840-009-9
; Sequence 9, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehner, Robert J.
; APPLICANT: Waring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
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; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-9
```

```
Query Match          100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KNLRRIRKIHIIKKYG 18
         |||||
Db      1 KNLRRIRKIHIIKKYG 18
```

RESULT 3

```
US-09-840-009-16
; Sequence 16, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-16
```

```
Query Match          100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KNLRRIRKIHIIKKYG 18
         |||||
Db      1 KNLRRIRKIHIIKKYG 18
```

RESULT 4

```
US-09-840-009-23
; Sequence 23, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-23
```

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Query Match          94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1,4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;
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```

; OTHER INFORMATION: D-Isoleucine
US-09-840-009-23
```

```
Query Match          100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
```

```
Qy      1 KNLRRIRKIHIIKKYG 18
         |||||
Db      1 KNLRRIRKIHIIKKYG 18
```

RESULT 5

```
US-09-840-009-30
; Sequence 30, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
; OTHER INFORMATION: D-Isoleucine
US-09-840-009-30
```

```
Query Match          100.0%; Score 90; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 2,4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0;
```

```
Qy      1 KNLRRIRKIHIIKKYG 18
         |||||
Db      1 KNLRRIRKIHIIKKYG 18
```

RESULT 6

```
US-09-840-009-4
; Sequence 4, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-4
```

```
Query Match          94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1,4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;
```

QY 1 KNLRRIRKIHIIKKYG 18
| | | | | | | | | | | | | | | | | |
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 7

US-09-840-009-8
; Sequence 8, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-8

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
| | | | | | | | | | | | | | | | | |
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 8

US-09-840-009-11
; Sequence 11, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-11

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KNLRRIRKIHIIKKYG 18
| | | | | | | | | | | | | | | | | |
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 9
US-09-840-009-15
; Sequence 15, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-15

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;

Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
| | | | | | | | | | | | | | | | | |
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 10

US-09-840-009-18
; Sequence 18, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.
; APPLICANT: Maring, Alan J.
; APPLICANT: Tack, Brian F.
; TITLE OF INVENTION: NOVISPRINS: ANTIMICROBIAL PEPTIDES
; FILE REFERENCE: 06510-195WO
; CURRENT APPLICATION NUMBER: US/09/840,009
; CURRENT FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 09/606,858
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-18

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;

Matches 17; Conservative 0; Mismatches 1; Indels 0;

QY 1 KNLRRIRKIHIIKKYG 18
| | | | | | | | | | | | | | | | | |
DB 1 KNLRRIRKIHIIKKYG 18

RESULT 11

US-09-840-009-22
; Sequence 22, Application US/09840009
; Patent No. 6492328
; GENERAL INFORMATION:
; APPLICANT: Lehrer, Robert I.

APPLICANT: Maring, Alan J.
FILE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-22

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 12
US-09-840-009-25
Sequence 25, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
FILE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-25

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 13
US-09-840-009-29
Sequence 29, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
FILE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19

PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
OTHER INFORMATION: D-alanine
US-09-840-009-29

Query Match 94.4%; Score 85; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.4e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 14
US-09-840-009-5
Sequence 5, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
FILE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 18
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-5

Query Match 93.3%; Score 84; DB 2; Length 18;
Best Local Similarity 94.4%; Pred. No. 2e-06;
Matches 17; Conservative 0; Mismatches 1; Indels 0;

Qy 1 KNLRRIRKIHIIKKYG 18
Db 1 KNLRRIRKIHIIKKYG 18

RESULT 15
US-09-840-009-12
Sequence 12, Application US/09840009
Patent No. 6492328
GENERAL INFORMATION:
APPLICANT: Lehner, Robert I.
APPLICANT: Maring, Alan J.
APPLICANT: Tack, Brian F.
FILE OF INVENTION: NOVISPIRINS: ANTIMICROBIAL PEPTIDES
FILE REFERENCE: 06510-195WO
CURRENT APPLICATION NUMBER: US/09/840,009
CURRENT FILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 09/606,858
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 18

```

; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic antimicrobial peptide
US-09-840-009-12

```

```

Query Match      93.3% Score 84; DB 2; Length 18;
Best Local Similarity 94.4% Pred. NO. 2e-06; 1; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 1;

```

```

QY      1 KQLRRIRRIIHIKKYG 18
      |||||
Db      1 KQLRRISRKITHIKKYG 18

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